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NOVEMBER 8, 1930.

Vol. CXIII.



THE BEST HOUSE FOR ALL PHARMACEUTICAL PRODUCTS

AND FOR PERSONAL SERVICE

Proprietors of the "Silver Churn" Dairy Preparations.

OLDFIELD, PATTINSON & Co.
TELEGRAMS: "OPIUM."
PHONES: Blackfriars 4682 (2 lines). MANCHESTER



'Torch' Brand Balsamic SKIN CREAM

An all the year round preparation, counteracting the effects of summer sun, winter cold, winds and sea water. For use after shaving it is invaluable. The pharmacist can sell this in spring, summer, autumn and winter.

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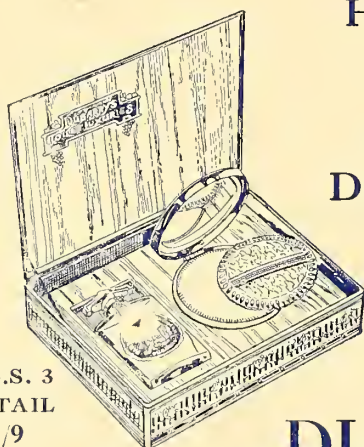
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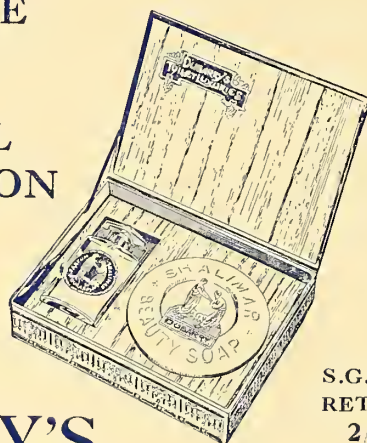
Telephone: 3201 (10 lines) Bishopsgate
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HANDSOME
CASKETS
OF
ORIGINAL
DECORATION

S.G.S. 3
RETAIL
3/9



S.G.S. 1
RETAIL
2/3



DUBARRY'S
GIFT SETS

S.G.S. 7
RETAIL
6/9



The above Shows one of
the Gift Sets closed.

The external decorations
are embossed
Metallic (Silver and
Gold) and Wedgwood
(Blue and Green)



S.G.S. 8
RETAIL
7/-



There are 32 DIFFERENT SETS, RETAILING AT 2/3 to 10/-





The above illustration is the actual size of calendars which are printed in four colours.

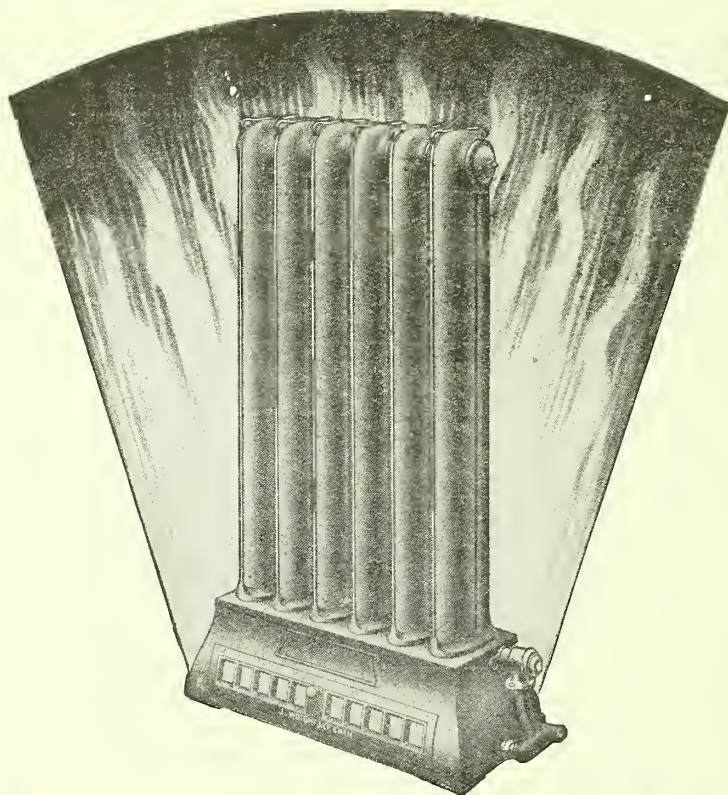
ENO POCKET CALENDAR

THIS YEAR we again invite you to make application for a supply of the Pocket Calendar illustrated above.

These are very neat and attractive and are in every way suitable for handing to your regular customers at this time of the year. Please make an application before December 1. All applications will be dealt with in rotation. Supplies can only be sent for distribution in the British Isles.

ENO'S TRADE MARK "FRUIT SALT"

*Send post card to-day to J. C. ENO Limited
160 Piccadilly, London, W.1*



Automatically Controlled SHOP HEATING

WRIGHT'S "Regulo"-controlled Gas Radiators fulfil all requirements in the heating of every class of building.

"Regulo"-controlled to maintain an even temperature and avoid wastage of gas, these Radiators are complete heating units in themselves. They are brought into or put out of commission in a moment and need no attention when in use.

Used in some of the largest buildings in the country, Wright's "Regulo"-controlled Gas Radiators are made in a number of sizes and supplied in black, mahogany or old-gold finishes.

WRIGHT'S

GAS

RADIATORS

*A new edition of the booklet,
"Loops of Heat," is now available.*

"REGULO"-CONTROLLED

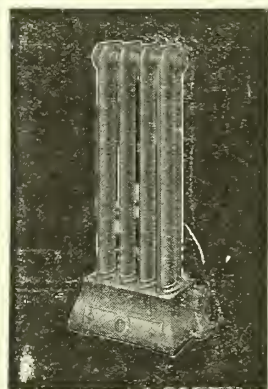
SEE THEM AT THE GAS
COMPANY'S SHOWROOMS

A Gas Radiator for every purpose



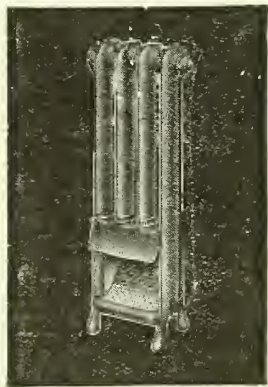
THE "ST. VINCENT."
"Regulo"-Controlled.

For Theatres, Cinemas,
Public Halls, etc.



THE "ST. MARTIN."
"Regulo"-Controlled.

For Shops, Churches,
Schools, Corridors, etc.
Approved by the
London County Council.



THE "ST. BERNARD."
Governor-Controlled.

For Private Houses,
Shops, Corridors, etc.

JOHN WRIGHT & CO., "CR." DEPT., ESSEX WORKS, ASTON, BIRMINGHAM. (RADIATION LTD., PROPRIETORS.)

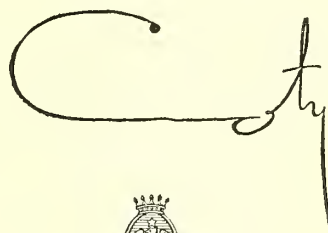
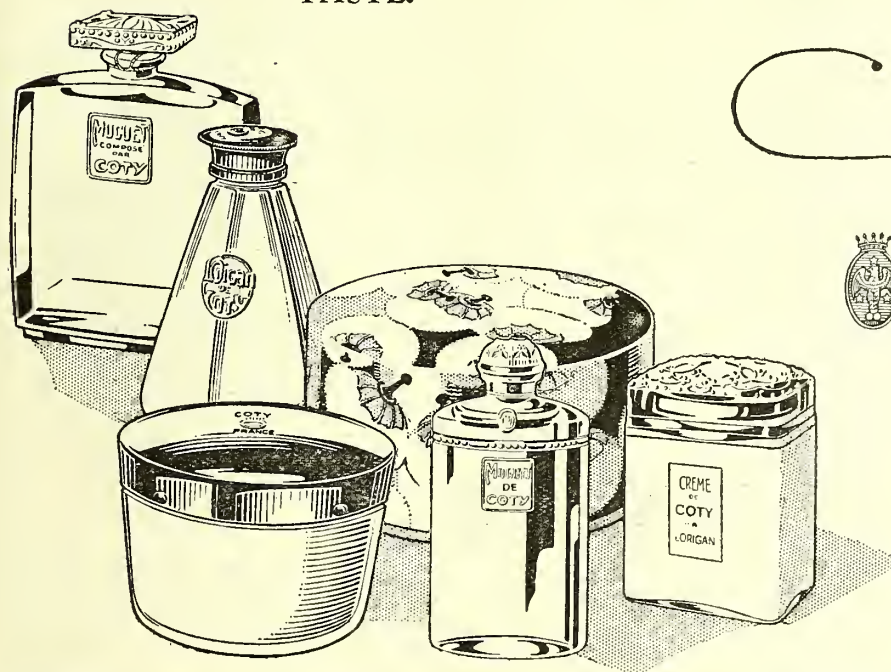
COTY CREATIONS

"Mass" Sales with "Class" Appeal

COTY CREATIONS have won and held supremacy as masterpieces of the perfumer's art. But with all their prestige and leadership as the most luxurious creations in the world, they are not necessarily costly.

The 'Handbag size' PERFUMES, ranging upwards from 3/9 retail price, and the famous Coty Face Powder in the 1/- Introductory size box, place the world's finest Perfumery Requisites within the reach of every woman's purse.

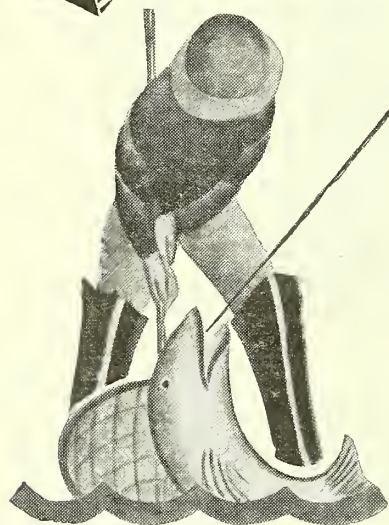
The extensive Coty Christmas Advertising will spread the message—GIVE COTY GIFTS—INEXPENSIVE PRESENTS OF VALUE AND TASTE.



Visit
COTY HOUSE,
3, Stratford Place,
London. W.1.

Telephone -
Mayfair 7244-49.
Telegrams -
Paricoty, Phone, London.

**"CATCH"
WORTH LANDING
ARE YOU SHARING?**



WHITE BEAR /BRAND/ COD LIVER OIL

Absolute purity, maximum vitamin content, minimum taste and smell—these merits, backed by press advertising and medical propaganda, have made White Bear Brand the best selling Cod Liver Oil over large areas of the country.

Stock and display White Bear Brand Cod Liver Oil and secure a share of the demand which makes a "catch" worth landing.

Supplied in 4 oz., 8 oz., 12 oz., 16 oz. and 20 oz. bottles.
Write for Trade Terms.

HIRST BROOKE & HIRST LTD.

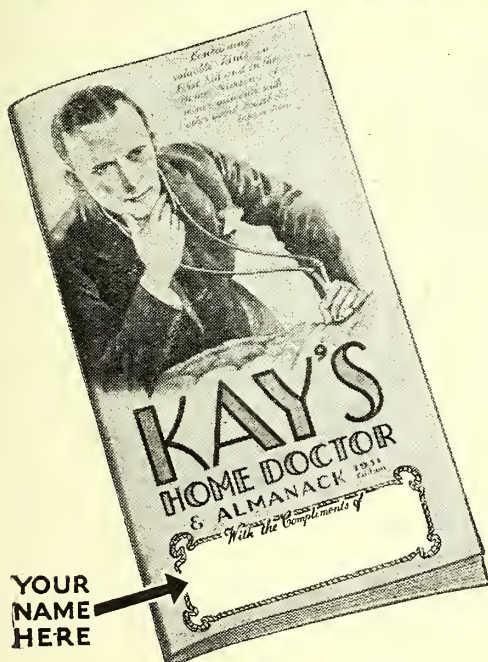
MILGART-MILGART-MILGART-MILGART

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A free advertisement for YOU throughout 1931 - in hundreds of homes



YOUR
NAME
HERE

Send two slip labels now with your order for the new revised edition of Kay's Home Doctor. This popular favourite is now in print, huge quantities have been ordered, but early application is essential if you are to have your supply, printed with your own name and address, in time for the New Year.

Remember—

KAY'S HOME DOCTOR

costs you nothing

Write to-day to
SALES MANAGER

KAY BROTHERS LIMITED, Stockport

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Write us about it.

Telegrams : "REMOGEN,
STEETON."

Telephone : STEETON, 69.

The World-famous
"Butterscotch"
Malt & Oil

Sole Makers:
C. Tolkien & Co. Ltd.
Remogen Works,
Lilsden, Yorkshire.

Supplied in all
shapes of tins,
Containers (N.H.I.),
etc., and in
Bulk Drums.

A large
assortment of
beautifully
lithographed labels
for supply to
customers,
with own name
and address
printed on.

London Telephone : MARYLAND 4585.

GOOCH'S

(1928) LTD

*Knightsbridge
London*Telephone:
KENSINGTON 5100.
(5 LINES)Telegrams:
VOGANVAL, KNIGHTS,
LONDON.CJR/C.

24/10/30.

The Advertisement Director,
The Daily Mail,
Northcliffe House,
LONDON, E.C.4.

SW3

Office of the Chairman.

Dear Sirs,

In forwarding the enclosed order for one whole page advertisement to appear on Saturday in each week commencing 25th inst. until further notice, I am desired by my Board to say that the decision to place this order was prompted by results which, from experience, are infinitely larger from The Daily Mail than from any other newspaper in the country.

Our Statistical charts prove quite conclusively that pro rata to the cost the results from The Daily Mail are three times greater than from any other newspaper used by this Organisation.

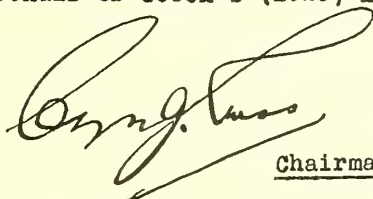
We are, thereby, permitted to adopt a very far reaching programme - namely to print what is virtually our Store News every Saturday in The Daily Mail. This we regard as a method which gives an opportunity to encompass a wider field more rapidly than a printed list usually permits. My Board consider, on the recommendation of the Management, that it is a cheaper method, a more effective method and a more modern method.

A point which weighed very much in favour of the adoption of this scheme was the possibility of legislating at the eleventh hour for last minute deliveries of merchandise, at its lowest price, so that the public may get immediate benefits from a falling market - a thing that is quite impossible in the production of Catalogues, Booklets or Folders.

There is hardly need for me to point out that irrespective of the cost of printing, block making, paper and envelopes the postage alone on a circulation of one and three quarter millions would be eight times the price of a full page advertisement in The Daily Mail.

Yours faithfully,

For and on behalf of GOOCH'S (1928) LIMITED.

Chairman.

THE WELL-KNOWN
R.J.R. SERIES OF
PERFECT ALL-GLASS
SPRAYS

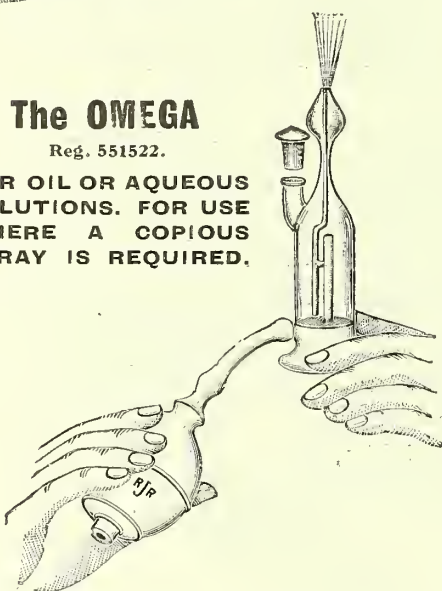
TESTED AND GUARANTEED



The "ARISTON"

Reg. 673322.

FOR OIL OR
HEAVY AQUEOUS
SOLUTIONS.



The OMEGA

Reg. 551522.

FOR OIL OR AQUEOUS
SOLUTIONS. FOR USE
WHERE A COPIOUS
SPRAY IS REQUIRED.

Also in many other patterns. List and Prices on request.

— NOW SUPPLIED BY —

BRITTON, MALCOLM & WAYMARK L^{DS}

38 SOUTHWARK BRIDGE ROAD, S.E.1

OR FROM ANY WHOLESALE HOUSE.



Behind
every
MAZDA
Lamp
is the B.T.H.
assurance
of high
quality
and good
service

MADE IN ENGLAND.

REDUCED PRICES
PEARL MAZDA LAMPS

(Standard Voltages)

15w. 25. 40. 60w. 100w.

2/- 1/10 3/-

3311

Ask your dealer for new Leaflet (L.504)
giving complete list of reduced prices.

THE BRITISH THOMSON-HOUSTON CO., LTD.,
SUBSIDIARY OF ASSOCIATED ELECTRICAL INDUSTRIES LIMITED,
CROWN HOUSE, ALDWYCH, LONDON, W.C.2

**Sniff
Penetrol
and
quickly
nip
that cold
in the bud**



AT the first suspicion of a cold... the tightness at the back of the nose... the dry hitch on swallowing... just drop a spot of Penetrol on your handkerchief, and inhale the pleasant vapour. If a cold has caught you unawares, this same easy way brings quicker relief than any other treatment. Handy little flask bottles 1/- and 1/9 of most chemists.



Penetrol
BRAND
INHALANT

No proprietary rights are claimed in the method of manufacture or formula, only in the registered word "Penetrol."

L94326

**3
drops of
Penetrol
on your
handkerchief**



**wafts
your
cold
away!**

NEVER again need you reach the 'misery stage' when the nose is sore, and the eyes are running, and sleep the only relief. Just drop a spot of Penetrol on your handkerchief, and inhale the very pleasant vapour. Relief is almost instantaneous. Handy little flask bottles 1/- and 1/9 of most chemists.



Penetrol
BRAND
INHALANT

No proprietary rights are claimed in the method of manufacture or formula, only in the registered word "Penetrol."

L94376

**Shift that
stubborn
cold
quickly
with
Penetrol**



DROP a spot of Penetrol on your handkerchief, and inhale the very pleasant vapour. Penetrol clears the head amazingly—soothes the inflammation—destroys germs. Penetrol is a new scientific formula (recipe on every package) and the QUICKEST way yet discovered for shifting a cold. Handy flask-shaped bottles with screw cap 1/- and 1/9 of most chemists.



Penetrol
BRAND
INHALANT

No proprietary rights are claimed in the method of manufacture or formula, only in the registered word "Penetrol."

L94377

These excitable little exhortations are now appearing in the National Press. Their jocular optimism will create good business for you. So why not get down quickly to 'Penetrol' pushing. There's big money for you in it. Profitable business brought right up to your counter as a result of this forceful advertising. See that your stock is O.K. and don't forget to put in a window display. Really striking showmatter is supplied.

W. B. CARTWRIGHT LTD. RAWDON LEEDS



Well Printed

HOW many printers are there who can handle chemists' specialised printing such as labels, wrappers, cartons, window-bills, etc. with proper appreciation of the requirements of the Trade? Very few.

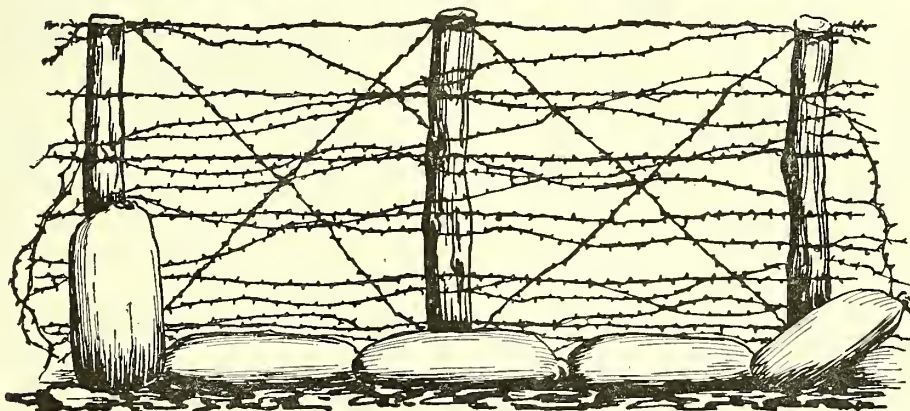
We have proved to hundreds of chemists, both wholesale and retail, our claim to be "The Chemists' Printers"

We have specialised in this branch of printing for forty years, and by keeping up-to-date in our methods and competitive in price, have achieved a reputation throughout the trade of which we are not a little proud.

We are always ready to give quotations advice and suggestions. If we are not already working for you we respectfully solicit your enquiries and trial orders.

Thomas Waide & Sons Ltd.
CHEMISTS' PRINTERS,
DARLINGTON STREET, LEEDS.

Maw's Page



BARBED WIRE ENTANGLEMENTS

A business writer has recently stated that the terminology of armies and battlefields is out of place in business. "Business is not a battle," he says, and we should not talk of the "Wheat front," the "Steel front," and so on.

Generally speaking, we agree. We dislike unnecessarily aggressive tactics and we have always advocated co-operation rather than competition in business.

But there are exceptions. Some forms of competition are so sinister, some tactics so unscrupulous, that there can only be one line of action—Coats off and fight to a finish.

Take the competition of outside traders to which the pharmacist is subject. Nobody knows where it begins or ends. Nobody can tell which branch of his business will be attacked next. It matters not that his efforts and enterprise have created the business. It is of no moment that he is obviously the proper source of supply.

So long as a line promises profits, it is open to attack. And there are no rules—Price cutting, bonus schemes, the buying and selling resources of mighty organisations, all are allowed.

For his own self-preservation the pharmacist must fight and fight hard, using all the weapons at his command as judiciously as possible to protect his own business and ensure a reasonable measure of future prosperity.

Here at Maws we look upon it as our job to keep him supplied with munitions. To give him the means of defence and attack. The barbed wire entanglements, the bombs, the shells and the rifle bullets.

The entanglements are our protective policy—Maws Goods supplied to chemists only. The ammunitions are new lines branded with our own name and registered trade names which are restricted to the pharmacist—"Meritor"—"Parex"—"Velfin"—"Vanitor"—"Safeguard"—and all the rest.

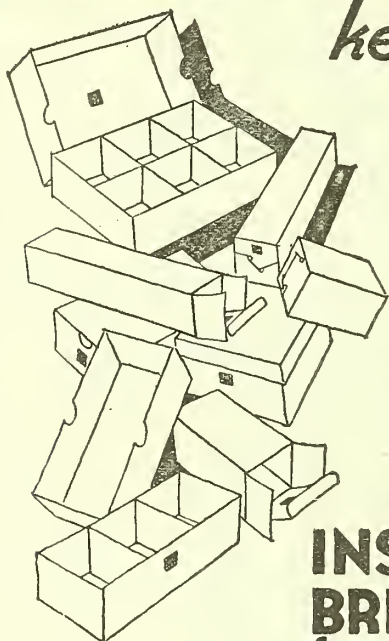
Remember, Maws are your allies. They support you actively and in turn look for your support.

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.



CARTON USERS!

keep the wheels of British mills turning



Seventy-five per cent. of the cardboard boxes sold in this country are probably made from foreign board. Most box makers would gladly submit samples of boxes made from British Board if asked to do so. Many box makers anxious to support British industry are fixing a coloured seal indicating this fact to specimen boxes made of British Board.

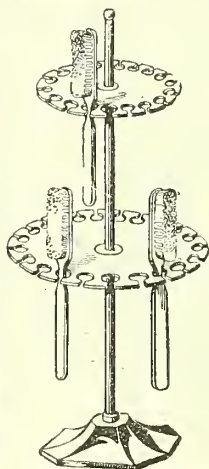


**INSIST ON
BRITISH BOARD**
for your boxes

Look
for this seal
on sample boxes

Q 2 7 2

An Ideal Tooth Brush Display Stand -



No. C.D.F. 2904.

Brown Bronze TOOTH BRUSH STAND, 16 inches high, fitted with 2 revolving discs to accommodate tooth brushes. Will display 39 brushes. Mounted on heavy 5-inch octagonal base. Ideal for Counter or Window Display.

7/6 EACH

TEAR THIS PAGE OUT

Please send me your list No. C.D. 1180.

Name.....

Address.....

DUDLEY & COMPANY LIMITED

451 Holloway Road, London, N.7

City Showrooms: 65-66 FORE STREET, E.C.2

A SPLENDID SELLER!

Dr. Lalor's Phosphodyne is not a new line; it has been held in high esteem in all parts of the world for more than sixty years.

The finest remedy for **DEBILITY, NERVOUS EXHAUSTION, LOSS OF APPETITE, MALARIA, MENTAL and PHYSICAL LASSITUDE, NEURALGIA, SLEEPLESSNESS.**



Dr. LALOR'S

Phosphodyne

HOW ARE YOUR STOCKS?

Dr. LALOR'S PHOSPHODYNE LABORATORY
71 Parliament Hill Passage, Hampstead, N.W.

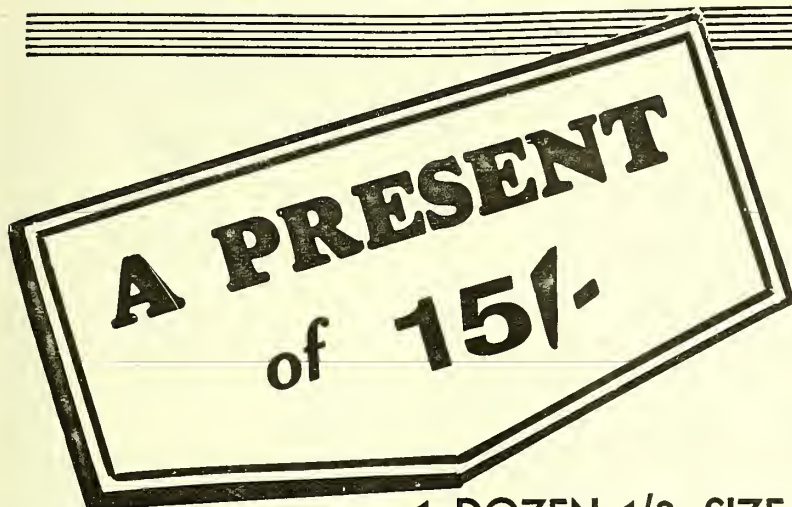
NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the continuous demand for it produces a quick turnover.

For Direct Terms apply to—

OSCAR SCRUTON & CO., YORK

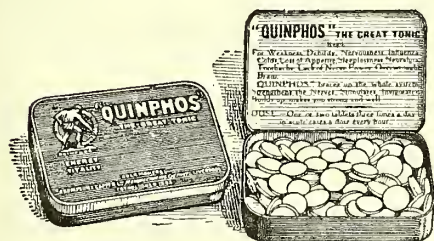


**GREAT
BONUS
OFFER**

1 DOZEN 1/3 SIZE

"QUINPHOS"

FREE WITH A £3 ORDER



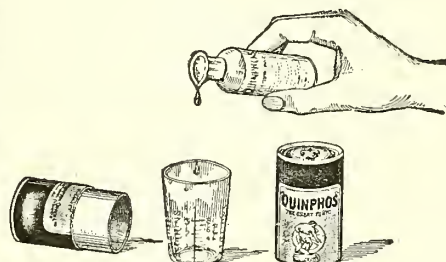
| | COST | SELLS FOR |
|-------------------------------------|-----------------|--------------------------|
| 2 doz. 1/3 "Quinphos" Liquid @ 11/6 | 1 3 0 | 1 10 0 |
| 1 " 1/3 "Quinphos" Tablets @ 11/6 | 11 6 | 15 0 |
| 1/2 " 3/- "Quinphos" Liquid @ 27/6 | 13 9 | 18 0 |
| 1/2 " 3/- "Quinphos" Tablets @ 27/6 | 13 9 | 18 0 |
| | 3 2 0 | Bonus 15 0 |
| 5 % 1 month | 3 1 | |
| Total cost | <u>£2 18 11</u> | Sells for <u>£4 16 0</u> |

Profit of £1 17 1 on an
outlay of £2 18 11

62.9% Profit on Cost 38.6% Profit on Selling Price

**A FINE SCREEN, GIANT DUMMIES and
SHOWCARDS for a first-class and
extremely attractive window show.**

PLEASE NOTE: The terms offered above show
a much better gross profit than a Chemist gets on
the whole of his business.



THOMPSON & CAPPER WHOLESALE LTD.
MANESTY BUILDINGS, COLLEGE LANE, LIVERPOOL



LIGHT TO ATTRACT BUSINESS

There is nothing quite so effective in attracting the buying public as properly placed brilliance. That is why so many successful retailers make their windows and shop interiors brilliant and inviting with

COSMOS PEARL LAMPS

Obtainable from all first-class
electrical contractors at

REDUCED PRICES

Look for the CARTON as illus-
trated above.

Metropolitan-Vickers Electrical Co. Ltd.
TRAFFORD PARK - MANCHESTER

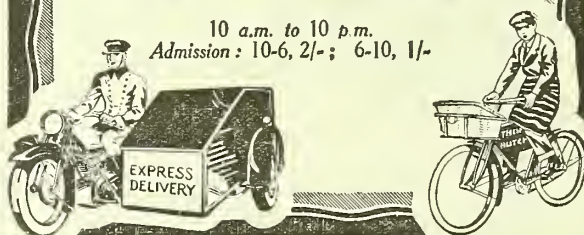
How to CUT DELIVERY COSTS

—deliver by Cycle or Motor-
Cycle Carrier.

The most efficient, cheapest and
quickest way of distributing light
loads over large or small areas.
To see the latest developments in Cycle,
Motor-Cycle and 3-wheel Carriers,

Visit the
**CYCLE & MOTOR CYCLE
SHOW** OLYMPIA
LONDON
NOV 10 TO 15

10 a.m. to 10 p.m.
Admission: 10-6, 2/-; 6-10, 1/-



Christmas Window Posters, Showcards, & Window Decorations

will give that finishing touch to convince the potential
buyer that yours are the goods for Christmas presents.
Illustrated List, in colours, No. C.D. 1206, showing
tickets, posters, window slips, and all decorations
applicable to the festive season, free on mention of
this journal.

DUDLEY & CO. LTD. 451 HOLLOWAY RD.
LONDON, N.7.
City Showrooms—65-66 FORD STREET, E.C.

WE SUPPLY DECORATED TINS FOR PACKING OINTMENTS

AND OTHER PRODUCTS.

SAMPLES AND PRICES UPON REQUEST.

THE CALDICOT TIN STAMPING WORKS LTD.

CALDICOT, Nr. CHEPSTOW, Mon.

TELLS ITS OWN STORY

*The patient
feels them
doing him
good.*

*It attracts
you
It will
attract
buyers!*

Per dozen - 4/-
6 dozen - @ 3/9
12 „ - @ 3/6

*Specimen outer of one
dozen post free for 4/-*



The
latest
and
the
smartest
in
Pharmacy

AYRTON'S
OF
COURSE

TUSSETTES

THE QUICK ACTION
BRONCHIAL TABLET

AYRTON'S, LIVERPOOL, ENG.



Here is a 100% Rat Killer at Last —

Here is a 100% Rat Killer at last—Stupendous success everywhere—and you can sell it as easily and safely as soap. Big press campaign commenced November 3rd. November insertions include:—

Daily Mail.
Daily Herald.
Farmer & Stock-
breeder.
Feathered World.
P.L.R. Bulletin.
Eggs.
Radio Times.
Humorist.
Journal of the Ministry of Agriculture.

Dairy World.
Spectator.
Grocer.
Field.
Morning Advertiser.
John Bull.
Tit-Bits.
East Anglian Daily
Times.

**THIS IS HOW
TO KILL RATS**

SNAP THIS UP!

Ratthanat where the rats frequent in
to six rats.
any which
young
for sewer
Ratthanat is guaranteed
poisonous to human beings,
and livestock.

RATTHANAT
THE 100% INFALLIBLE RAT KILLER

1/3 (4 cubes) and 3/- (12 cubes) from Boot's and all Chemists.
Quotations for quantities for larger premises (docks, warehouses,
etc.) supplied on request to

RAT EXTERMINATORS, LTD.,
2, Simpson House, Sheppy Place, Minories, London, E.C.3

This Order Form will bring you
our Special Bonus Parcel (available
until December 1st) and attractive
: : display material : :

ORDER FORM

Post to RAT EXTERMINATORS, LTD.

Simpson House, Sheppy Place, Minories, E.C.3

Please forward Special Bonus Parcel as per your Bonus
Offer together with display material.

Signed.....

Address.....

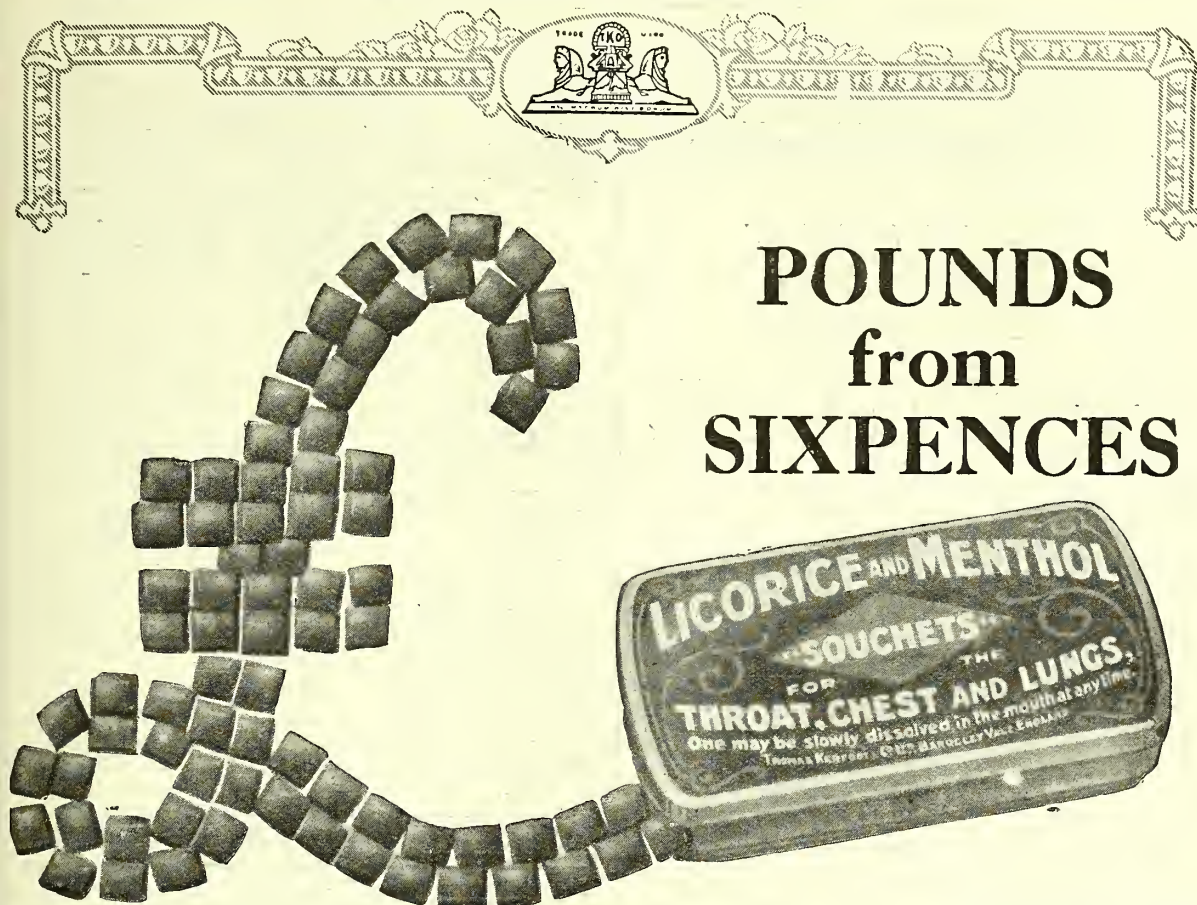
BONUS OFFER

2 dozen
1/3 RATTHANAT
@ 10/- dozen

1 dozen
3/- RATTHANAT
@ 24/- dozen

13 to the dozen if ordered now.

Your cost is 44/- less 2 1/2% for cash in
7 days = 42/11. You sell for 71/6.
Your profit is £1-8-7, or 66% on Cost,
40% on Sale Price.



POUNDS from SIXPENCES

“ SOUCHETS ”

“ Souchets ” are now still more profitable. Write for particulars of the reduced trade prices.

A DISPLAY out of Licorice and Menthol “ Souchets ” on the counter earns many sixpences in the course of a wintry week — sixpences which soon mount up into pounds.

“ Souchets ” meet a real Winter need with an article of outstanding quality. The more you display the more you will sell.

In common with all Kerfoot preparations, “ Souchets ” combine a substantial profit margin to the Pharmacist, with the quality, reliability and good value to the public which ensure repeat sales and build up goodwill for the future.

To EXPORT BUYERS—All orders and enquiries should be addressed to our Sole Export Agents
Wm. ALFRED JONES Ltd., West India House, Liverpool

THOMAS KERFOOT & CO. LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797

E/93

AT LAST!

We can now offer

SOLID ESSENTIAL OILS

containing up to

73%

of essential oil

- ☐ All perfume compositions as well as any essential oil can be supplied in the solid form.
- ☐ The base used is quite harmless and neutral.
- ☐ The full aroma and delicacy of the perfume oil is unaltered.

For further information and samples :—

ESSENCES & SYNTHETICS, LTD.

W. C. SLATER, Managing Director

4 CARLISLE AVENUE

LONDON, E.C.3

Royal 0290

Essynthet, Ald, London

ESSENTIAL OILS
FLORAL OTTOS
DEODORANTS

Two of the Best!



.. for
steady
sales.

Men who use Anzora never change—they know it to be the finest hair fixative. That is why Anzora Cream and Anzora Viola are in constant demand. Never "run out" of Anzora—you'll lose sales if you do! All reputable wholesalers stock Anzora, but if you have any difficulty write direct.

TRADE TERMS

12/- doz.
Retail at 18/-
20/- doz.
Retail at 30/-

SHOWCARDS & CUTOUTS

A supply of attractive Showcards and Cut-outs for Window Display sent post free.

ANZORAPERFUMERY
CO., LTD.

London, N.W.6.

ANZORA

MASTERS THE HAIR

JACKEL'S HAIR CREAM

The Original Hair Cream

Tested and tried through forty years, Jackel's is firmly established in public confidence—demand is steady and increasing—sales are rapid.

See that Jackel's is in your stock.

11/6 per dozen, selling at 1/6 per bottle.

18/- " " " " 2/6 " "

Dr. Blanchard's Solidified Brilliantine

20/- doz., selling at 2/6 per Jar.

JACKEL ET CIE (of Paris) Ltd.,

High Class Perfume Manufacturers.

73, Robertson Street, GLASGOW.



HELLO! EVERYBODY!



Old Man Wanie speaking—just done 10 days' work, and still 'keen' for more!

Sell WANIE

THE BLADE THAT LASTS.

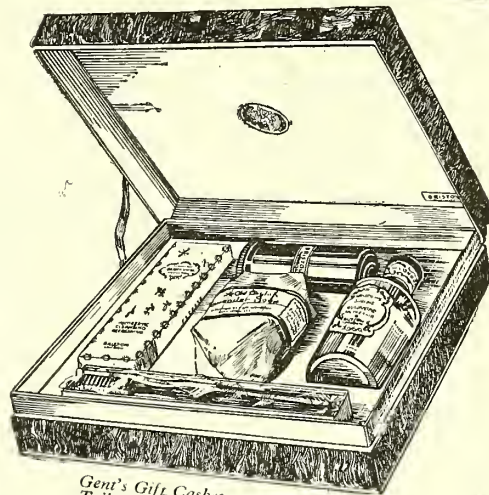
FREE SAMPLE ON REQUEST.

Dept. C.D., WANIE DISTRIBUTING CO.,
89 Aldgate High Street, E.C.3.

Irish Free State Agents:
Messrs. W. A. FREEDMAN & CO.,
21, Merchant's Quay, DUBLIN.

TIME IS GETTING SHORT

So many customers are ordering the new range of Bristow's Xmas Perfumery that our specially augmented staff are working at full pressure to meet their requirements.



Orders will be coming in still faster in the next few weeks . . . the earlier you let us have your order, the earlier you will get delivery. Send in YOUR order NOW.



BRISTOW'S XMAS PERFUMERY

ALL Bristow's Old Xmas favourites and new lines which are proving even more popular.

T. F. BRISTOW & CO LTD. COLINDALE, LONDON, N.W.9
West End Showrooms : MAPPIN HOUSE, 158 OXFORD ST., W.1. (Phone : Museum 5478)

Chemists interested in quick,
profitable and essentially
chemists' lines should
write for special
**WINDOW
DISPLAY
TERMS**

I-O-DENT

THE
ORIGINAL

IODINE TOOTH PASTE

6d. size 3/3 doz. 1/- size 6/6 doz.

MAGNIFICENT DISPLAYS with 6 doz. upwards

I-O-DENT is the most pleasant of Dentifrices

I-O-DENT LABORATORIES, 56 DURHAM ROAD, HOLLOWAY, LONDON, N.7.

PUFFS BY

Mary Marshall

Puffs, whose soft luxuriance tempt every woman to purchase—puffs, whose cool touch satisfies the most fastidious of your clientele—puffs, whose inviting charm create their own sales—these are the reasons why all who sell beauty culture aids should stock Mary Marshall Puffs.

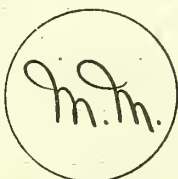
In white and all fashionable shades to retail at prices from one shilling to four guineas.

Write for particulars and trade prices.

Mary Marshall

LIMITED

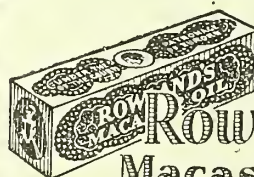
4, CASTLE BOULEVARD, NOTTINGHAM



For 137 years

Rowland's Macassar Oil has been a favourite dressing for the hair. It keeps the hair healthy, and prevents the encroachment of greyness and baldness.

Of all Wholesalers.



**Rowland's
Macassar Oil**

Red for
dark hair
Golden
for fair or
grey hair

A. ROWLAND & SONS, Ltd., 112 Guilford St., London, W.C.1

RETAIL

3/6, 7/- & 10/6

P.A.T.A.

**2D.
EACH**

TEMMAH

**2D.
EACH**

To-day's most popular

SAFETY RAZOR BLADE
TO FIT ALL 3-PRONGED HOLDERS

Compare with other makes **THE PROFITS YOU EARN** on these terms:—

15s. Per Gross, less 10% Discount

CASH WITH ORDER OR C.O.D.

PLUS BONUS OF 2 DOZ. PER GROSS,

Orders executed on S/R basis nett.

TEMMAH PRODUCTS, LTD.

14-16 LOWER CLAPTON ROAD, LONDON, E.5.



Sell small introductory lines

They are "best-sellers" and make a nice addition to your turnover.

But - be careful! Inferior goods don't please. Recommend only articles of established reputation, in the front ranks of which are these charming Flaconnettes for the Handbag in which CHERMAMY of PARIS now packs its well-known Perfumes.

The Display Box for the counter - given free - is so attractive that it compels attention and tempts to buy. Order now and make sure of your supply.

In Display Boxes of 48 Assorted Perfumes

28/10 per box nett

To retail at **1/-** each

FLACONNETTES "POUR LE SAC"

CHERMAMY

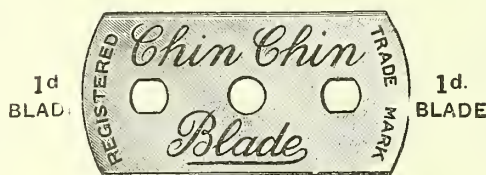
PARIS

Larden Road PARFUMERIES DE PARIS Ltd. Acton-London

CAN BRITAIN COMPETE?

THIS NEW AND BETTER RAZOR
BLADE IS SWEEPING AWAY
FOREIGN COMPETITORS.

AT 1/- PER DOZ.



CHIN-CHIN BLADES

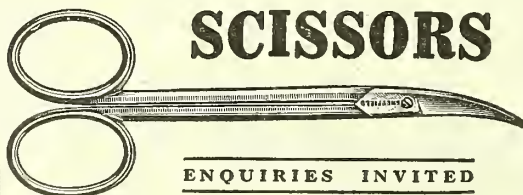
Manufactured by—

The WAFER RAZOR Co. Ltd.
262 EARSHAM ST., SHEFFIELD.

RODGERS QUALITY —and the lowest price in Sheffield!

Rodgers' Scissors have always sold on quality, now they sell on price as well. The card illustrated costs you 6/6 and the scissors sell at prices ranging from 1/3 to 2/3, showing you a net profit of 3/3 per card. They are being widely advertised in Daily and Women's Papers under the slogan, "What! Rodgers' quality at that price!" Order Card No. E. 7174/C, and see how the scissors sell themselves.

Joseph Rodgers & Sons, Ltd.
Cutlery to His Majesty,
SHEFFIELD.



SCISSORS

ENQUIRIES INVITED

GILL, HERBERT & CO., Ltd.
CUTLERY MANUFACTURERS,
Wheeldon Street, SHEFFIELD

POSTCARDS

From One or More Negatives

2/- FOR 1 DOZEN
6 for 1/3, 4 for 1/-
SINGLES, 4d. EACH

Less 33 1/3% Wholesale Discount
HIGHEST CLASS WORK ONLY.
Sole Agency for each Town or District.
Fix up now in Front of your Competitor

Tel. No. 226



THE
"Owl" Photographic Service Competition does
SPOUT YARD, LOUTH, Lincs. Not make him blink

ACTS LIKE A CHARM FOR RED, ROUGH, CHAPPED HANDS

THE ORIGINAL
AND BEST

"Veldt Cream"
1 oz. FIVEPENCE
3 oz. 1/-, 6 oz. 1/9,
12 oz. 2/9
WRITE FOR BONUS
TERMS TO THE
VELDT LABORATORY
LOUTH, Lincs. Tel. No. 226

OVER 53%!! This Profit on your outlay is guaranteed to you by The FLEET Blade



A Sheffield
Product from the
Molten Steel to the
Finished Blade.

Retails at 3 for 7 1/2d.

Liberal trade-making samples
given to new stockists.

Bonus offered for Window
Displays.

Sample and terms from sole makers:

DOMINION STEEL CORPORATION, Ltd.
Fleet Works, Queen's Road, SHEFFIELD.

A Good Seller

As a tonic to prevent hair falling, to
promote growth, and as a natural colour
restorer for grey or faded hair—

MORGAN'S POMADE

has no equal. It has been before the public for 40 years, and testimonials from all over the world prove its wonderful efficacy. Profits are generous, sales are quick, and customers are always satisfied. Morgan's Pomade is as near the ideal selling line as any hair preparation can be.

Retail 1/9 and 3/3 per pot. Wholesale 14/- and 26/- per doz.
On P.A.T.A. List.

MORGAN'S SOLID BRILLIANTINE

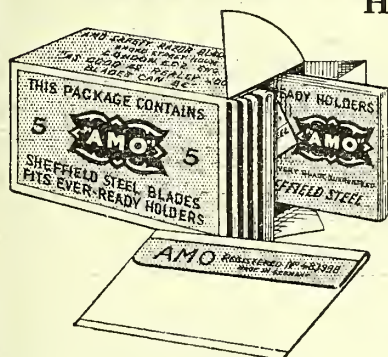
Keeps the hair in position and acts as a Tonic and Invigorator.
Retail 1/- per tin. Wholesale 8/- per doz. Discount on larger quantities.
Write for full particulars.

The MARIE ANTOINETTE CO., LTD. 149 JUNCTION ROAD, LONDON, N.19.



ANOTHER OUTSTANDING ACHIEVEMENT!

AMO SHEFFIELD STEEL BLADES TO FIT EVER-READY HOLDERS



RETAIL
1/-
FOR 5
RETAILER'S
PROFIT
60%

Obtainable of
all Wholesalers

Write now for
Free Sample
and Terms.

AMO SAFETY RAZOR BLADE Co., Ltd.
Broad Street House, LONDON, E.C.2.

Phone: Ave 8846.

NEW! THE MYATT DAYMARK SAFETY RAZOR



made for the
Million Users of
**MYATT
DAYMARK
BLADES**

From all
Wholesalers.

Sole Manufacturers

W. J. Myatt & Co. Ltd.
BIRMINGHAM

**2/6 RETAIL
RETAIL
DISCOUNT
25%**

G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulars to:—

75 FARRINGDON ROAD, E.C.1.

"ODENTIC" PLATE BRUSH

Regd. No. 417637.



From all
Wholesalers.

Packed in 1/2-dozen Display Boxes.

Manufacturers:

W. R. Speer & Son (EST. 100 YEARS)
215 DALSTON LANE - - LONDON, E.8

Agent for S. Africa—C. GORDON DAVIES & CO.,
National Bank Buildings, Pritchard Street, Johannesburg.

HAIR

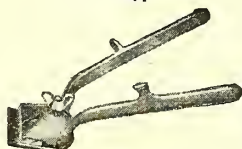
BURMAN

CLIPPERS

For SURGICAL
and VETERINARY
PURPOSES.

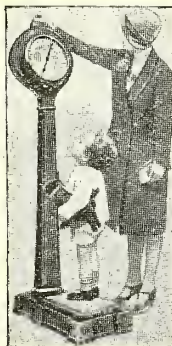
HAIRDRESSERS' CLIPPERS

The British-Made
Hair Clipper



Dainty Shingling
Clippers for
Ladies' use.

BURMAN & Sons, Ltd., BIRMINGHAM



Let the "GEM"
make money for you

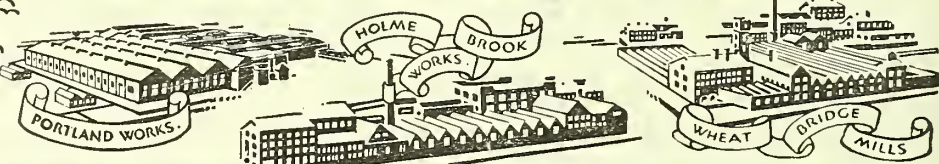
Write for particulars and
name of local agent to the
manufacturers:—

THE GEM
AUTOMATIC WEIGHING
MACHINE COMPANY
LIMITED

46 NEW CITY ROAD
GLASGOW C.4



Chesterfield



The Town of the Crooked Steeple and the Cardboard Box Industry

Goods well packed are half sold, and easier selling means more sales.
We have expert box designers who specialise in designing boxes which are salesmen as well as packages. If therefore you have any packing troubles send them to CHESTERFIELD where our 90 years experience is at your disposal.

ROBINSON & SONS, LTD., WHEATBRIDGE MILLS, CHESTERFIELD.
MANUFACTURERS OF ROUND, OVAL, SQUARE AND FOLDING CARDBOARD BOXES.

900 workers are employed in the above factories.

ADVERTISING
BALLOONS
FIRST QUALITY SEAM-
LESS RUBBER BALLOONS

Printed with your advertisement.

| | | | |
|---------|---------|---------|----------------|
| 20 ins. | 24 ins. | 28 ins. | 32 ins. |
| 7/6 | 11/0 | 13/0 | 16/6 Per Gross |

Send at once for full List No. 774 post free.

J. C. KING, Ltd.
42-60 GOSWELL ROAD, LONDON
E.C.1.

KARL HÖLL A.-G.
Langenfeld near Cologne Germany
EXPORT TO ENGLAND SINCE 1884.

Manufacturers of :-
TUBES of all kinds,
plain and decorated.
SPRINKLER TOPS of
all sizes and styles.

IMPORTANT: When asking
for quotations send samples already used and
state quantities required. Goods will arrive
in 3-4 days with direct steamer from Cologne.

ACELTA CAPPING SOLUTION

THE ORIGINAL ——— AND STILL THE BEST!

Attractively replaces old-fashioned methods of bottle capping.
Samples and prices on application.
Direct or from your usual wholesaler. Note New Address:

ACELTA CAPPING CO. LTD. :: DERBY STREET :: MANCHESTER

**VETERINARY
COUNTER
PRACTICE**

Chemists interested in veterinary practice will find it indispensable, as it deals with the ailments of horses, cattle, sheep, pigs, dogs, and poultry, and the remedies that can be supplied. New edition, 1930 (Eighth), brings this book thoroughly up to date. Price 7s. 6d. net, by post 8s.

Published by "THE CHEMIST AND DRUGGIST," 28 Essex Street, LONDON, W.C.2
Branch Offices: Manchester & Sheffield, England. Glasgow, Scotland. Melbourne & Sydney, Australia. Auckland, New Zealand

*If its
Customers
you want*

YOU SHOULD STOCK

PETAL DUST

*"Wherein the subtle savour of the Flowers
sublimely dwells."*

THE GREAT FLORAL AIR PURIFIER

A TRIAL WILL CONVINCE YOU THAT—

PETAL DUST, when once shown, creates its own demand, and is therefore a valuable adjunct to every "go-ahead" store.

PETAL DUST, when displayed prominently upon your counter, will attract prudent customers by the fragrance of its unique odour, which to-day is of such universal admiration.

RETAILS IN PACKETS AT 4d. AND 8d. EACH.

Attractive Advertising matter free on request.

Obtainable through all the usual Wholesale Houses or from
Sole Producers:—

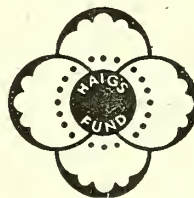
THE ROSMARINE MANUFACTURING CO.
LONDON, S.E.1

"LEST WE FORGET"

REMEMBRANCE DAY

NOV. 11TH

GIVE GENEROUSLY
FOR YOUR
POPPY



"NEWBERYS"
(F. NEWBERY & SONS LTD)

LONDON, CARDIFF AND LIVERPOOL.

SELLING PRICES.

| | | |
|-----------------|---|------|
| Pocket | - | 3/6 |
| Shingle | - | 9 |
| Small Universal | - | 4/9 |
| Universal | - | 5/9 |
| Junior | - | 7/6 |
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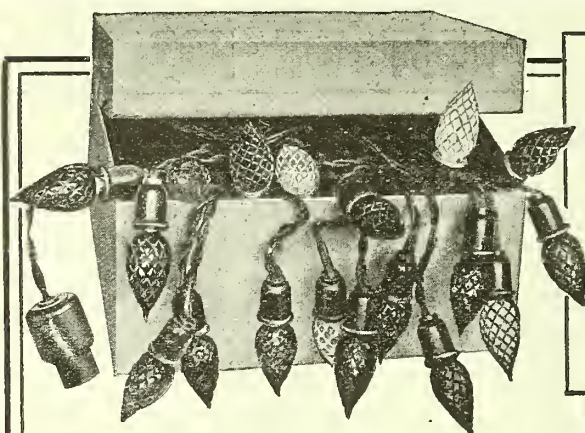
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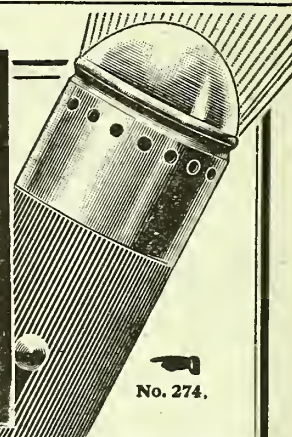
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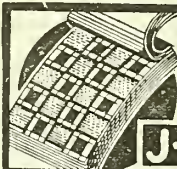
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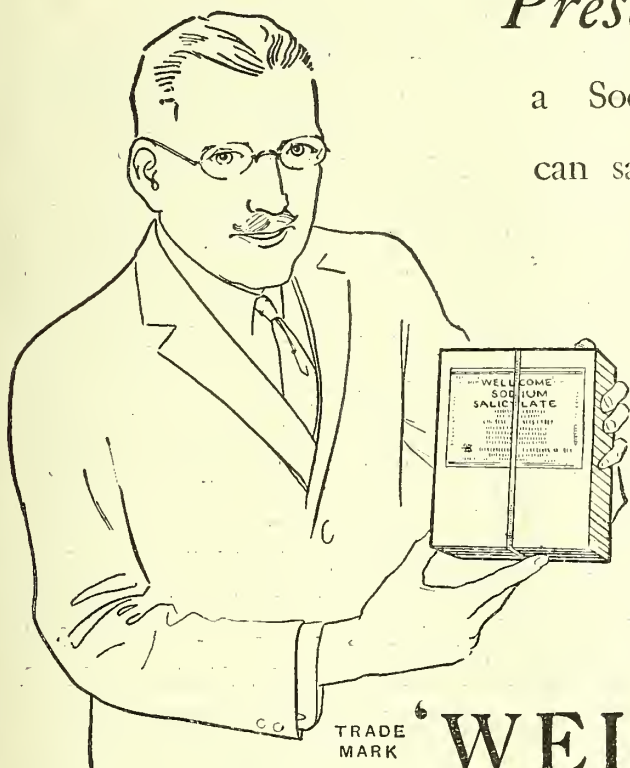


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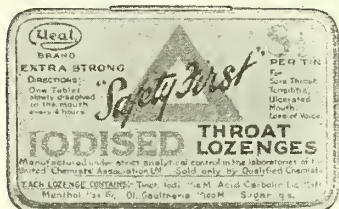
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English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Analyst's Report

The report of the Birmingham city analyst (Mr. H. H. Bagnall, B.Sc., F.I.C.) for the third quarter of 1930 states that 1198 samples were submitted during that period. Sixty-two samples of miscellaneous drugs (a list is given) were taken from stock at the Yardley Road Sanatorium, Little Bromwich Hospital, the Tuberculosis Dispensary and the Council House. All were of good quality. With the exception of one sample of citric acid, all the drugs examined (thirty) were of satisfactory composition. A sample of ground ginger was found to contain sulphur dioxide. The report concludes with details concerning a sample of fertiliser. The sample, taken in the prescribed manner, was found to contain 0.16 per cent. of phosphoric acid instead of 7.78 per cent. as implied by the particulars marked on the label. A summons was taken out for giving false particulars of analysis. It should be mentioned, states the report, that the sample apparently consisted of dilute glue with a little oil of wintergreen to mask its smell, and was sold at 3s. 9d. per pound. The defendants pleaded "Guilty," and explained that the chemist in charge of the process had made a mistake in the position of the decimal point in calculating the composition. The magistrate accepted the explanation and inflicted a nominal fine of £3.

Visit to Works

A large party of members of the South-West London Chemists' Association and their ladies paid a visit to the Hounslow laboratories of Parke, Davis & Co. on October 29. The first party, numbering nearly fifty, started at noon, and on arrival were entertained to lunch. In the absence of Mr. Cathcart (superintendent of the laboratory), Mr. T. Maben welcomed the visitors and presided at the luncheon. Afterwards, the second party having arrived, photographs were taken. The

party was then split up and conducted round the works, the various processes by which the firm's products are prepared being explained. Later in the afternoon the entire party of 106 was entertained to tea, after which Mr. George Poyes, B.Sc., gave a short lecture on the scientific work of the firm. Mr. F. G. Wells (treasurer), in the unavoidable absence of the president (Miss A. T. Borrowman), moved a hearty vote of thanks to the firm for the cordial way in which they had entertained the Association. He thanked the guides for the courteous way they had conducted the parties, and said they were very pleased to have heard Mr. Boyes lecture to them, as he was a member of their own Association and a son of an old and valued past-officer. He concluded his remarks by saying how pleased he was to have had Mr. T. Maben as their host. Mr. D. A. Rees seconded the vote, and paid a tribute to the work of the staff. Mr. T. Maben briefly replied.

I.S.B.A. Chemist Trade Section

The newly formed Chemist Trade Section of the Incorporated Society of British Advertisers held its first business meeting on October 30 at the Royal Pavilion, Brighton, in connection with the second annual conference of advertisers. Mr. B. E. Kent (chairman of the Section) presided and explained the methods of conducting business which it was proposed to adopt in order to avoid unnecessary meetings. These were approved and the title of the Section confirmed. Mr. H. C. Edgell (secretary) opened a discussion on coercive advertising and other uneconomic expenditure. Mr. B. E. Kent dealt with the vernacular Press in India and China and the boycott of British pharmaceutical products in India, and Captain P. G. E. Warburton spoke on the value of chemists' co-operation with special reference to window shows. Among those taking part in the discussions were Messrs. Isidor Joseph, P. J. Mead, Hugo Wolff, C. J. Harrison, H. T.

B B *

Bleasdale, H. Livesey and N. W. Holmes. Among others attending the conference were Messrs. E. J. Smith, H. W. K. Pears, G. R. Coates, Thomas Bell, A. E. Knight, E. L. Audrey and E. H. Willmott.

Birmingham

The Birmingham Microscopical and Natural History Society celebrated its jubilee recently.

As a result of tampering with a consignment of sulphuric acid in a Birmingham yard, recently, five boys were burned, two of them severely.

A report by the principal of the Birmingham Central Technical College on the result of the work of the 1929-30 session was submitted at a meeting of the Birmingham Education Committee on October 31. It was stated that eighty-nine successes were obtained in the various qualifying examinations of the Pharmaceutical Society.

Liverpool

A successful dance was held on October 28 by the Old Students' Association of the Liverpool School of Pharmacy.

Mr. L. Moreton Parry, president of the Liverpool Chemists' Association and ex-president of the Pharmaceutical Society, has entered hospital for an operation.

A memorial service in connection with the death of the late Mr. W. H. Saunders, F.C.S., F.R.G.S., chairman of Ayrton, Saunders & Co., Ltd., manufacturing chemists, who died at Rangoon, on October 27 (*C. & D.*, November 1, p. 548) was held at Great George Street Congregational Church on November 1. The service was conducted by the Rev. W. P. Paxton, and was attended by Mr. Saunders's relatives, the directors of the company, and more than 500 employees. Among others present in the large congregation were Mr. J. H. E. Evans and Mr. T. Edward Lescher, O.B.E. (Evans Sons Lescher & Webb, Ltd.); Mr. J. Brigham and Mr. F. H. Wilson (Clay & Abraham); Mr. R. Dick (May, Roberts & Co.); Mr. A. M. Black (Fassett & Johnson); Mr. H. Humphreys Jones, F.I.C., Ph.C. (principal of the Liverpool School of Pharmacy); Mr. John Jones (ex-president of the Liverpool Association); Mr. J. L. Hirst (vice-president); Mr. Harold Lomax; Mr. W. H. Clubb; Mr. S. Hughes (treasurer); Mr. John Rae (secretary); Mr. C. H. Wright (president of the Birkenhead Chemists' Association); and Mr. Herbert Taylor (St. Anne's).

Manchester

Mr. William Wyatt, Ph.C., librarian of the Manchester Pharmaceutical Association, has been on a brief visit to London.

"The Serpent" for October contains a tribute to the late Professor H. B. Dixon, including the following passage:—"Not only was he a master of experimental research with a marvellous capacity for distinguishing the essential from the accidental; he was, above all, a true master in the old sense. His ability to train others was an inspiration in itself, and he spared no pains to impress upon those privileged to work with him the paramount importance of accuracy and truth in all details."

Miscellaneous

ALL-NIGHT WINDOW LIGHTING.—A scheme is in process of preparation by Leeds Chamber of Trade with a view to enhancing the city's reputation as a shopping centre by window lighting all night, if the city Electricity Department will supply current at a favourable price during the hours when there is very little other "load."

THEFT CHARGE.—At North London Police Court, on November 4, George F. Bennett (22) was charged with theft of a cash box containing £24 15s. from the shop of Mr. G. J. Lusher-Pentney, chemist and druggist, Kingsland Road, E. The accused, who was stated to

have taken the money while being served at the shop counter, was remanded.

LICENCE REFUSED.—The Public Control Committee of the London County Council refused, on October 31, an application of Dermatological Studios, Ltd., to carry on a massage establishment in Old Bond Street, W. Two medical experts gave evidence on behalf of the Council to the effect that the risk of producing cancer by the use of x-rays in the manner suggested by the applicants was a real one.

WINDOW-DISPLAY AWARDS.—Mr. W. Massey, chemist and druggist, Guildford, won a silver cup for the most original window in a competition which was held during the local shopping week. Miss Blackburn, chemist and druggist, who manages Mr. Massey's branch establishment, was awarded a silver cup for an artistic display of lavender water, in connection with which Potter & Moore, Ltd., loaned a working model of the fire still they used in 1749.

FACTORY ACTS.—At Lowestoft, recently, Mr. John Barker, London Road South, was fined 10s., with costs, for employing young persons on a Sunday contrary to Section 34 of the Factory and Workshop Act, 1901. It was stated that the defendant was the proprietor of premises where photographic films were developed with the aid of machinery. The defence was Mr. Barker did not know his premises came under the Act until it was too late to alter arrangements previously made.

SPORTING EVENTS.—The following are the results of matches played by teams representing Potter & Clarke, Ltd., manufacturing chemists:—*Football*, Potter & Clarke, Ltd., "A" XI v. Prichett & Gold, at Dagenham on November 1, in the second round of the Buchanan Cup (London Business Houses), won 3-0. Potter & Clarke, Ltd., "C" XI v. Oxford University Press, at Chingford on November 1, in a friendly match, won 6-2. *Girls, Netball Section*, Potter & Clarke, "B" team v. Wallis T.C., on November 1, also was 17-10, in a friendly match. Potter & Clarke, Ltd., "B" team v. Wallis T.C., also on November 1, won in a friendly match, 9-4.—Playing on their own ground on October 29, the Ipswich Chemists' men's team were beaten by the 1st XI from the Air Station, Martlesham Heath, 7-1. On the same day, playing away, the ladies' team lost 4-1 to the Waterloo House ladies.

Irish News

Brevities

Mr. W. A. Gamble, Ph.C., has opened a pharmacy at 28 Carlisle Road, Londonderry.

The annual dinner of the Pharmaceutical Society of Ireland will be held in the Gresham Hotel, Dublin, on December 9.

Mr. Eugene MacSweeney, Ph.C., presided at the second annual general meeting of the Cork Publicity Association, Ltd., recently.

At Ballynahinch (co. Down), recently, a verdict of "Suicide" was returned at an inquest on the body of Isabella Somerville, a farmer's wife, who died from strychnine poisoning.

A verdict of "Death from misadventure" was returned at an inquest on the body of a boy named James McCoy, Dysart, Newry. The child had entered an outhouse and knocked down a tin of sheep dip, a portion of which he consumed.

At the annual meeting of the Belfast Chamber of Trade on October 29, Mr. Horatio Todd, Ph.C., was elected a vice-president, and Mr. J. Dundee, Ph.C., a member of the Executive Committee.

Magherafelt Board of Guardians and the Rural District Council passed a vote of congratulation to Mr. S. S. Badger, J.P., on his election as president of the Pharmaceutical Society of Northern Ireland.

Scottish News

Brevities

A Scottish Radiographic Society has been formed.

Mr. William Meldrum, chemist and druggist, Rothesay, has been elected a member of Rothesay Town Council.

Mr. J. W. Meldrum, son of Mr. Martin Meldrum, Ph.C., Ayr, has been selected for appointment to the Indian Civil Service.

A Scottish Spa Reopened

THE reconstruction and entire modernising of the spa at Allan Water Hotel, Bridge of Allan, has now been completed, and the opening ceremony was performed on October 30 by Sir Humphrey Rolleston, Bt., G.C.V.O., K.C.B., M.D. Provost Dunbar, who presided, said that the occasion also marked the sixtieth anniversary of the incorporation of Bridge of Allan as a burgh.

Sir HUMPHREY ROLLESTON, in his address, referred to the antiquity of the Mineral Wells of Bridge of Allan, which originated in a mine gallery some 1,200 yards long beneath the hill on the side of which the hotel is situated. This mine was worked for silver and copper in the seventeenth and possibly in the sixteenth century, and from this time the waters which issue in the mine have been known for their medicinal qualities. They were in high repute and extremely popular 100 years ago. Large numbers of visitors were turned away from the village for want of accommodation, and the fame of the spa persisted until the middle of the last century, when every year from 30,000 to 40,000 people visited Bridge of Allan to take the waters; unfortunately the authorities provided no accessory amenities, and Bridge of Allan became superseded by more modernly equipped spas in this country and on the Continent. To-day Bridge of Allan is well equipped with all modern facilities for the administration of its waters both internally and externally, and with apparatus for electrical and radio treatment as well as inhalation, etc. The establishment is small compared with those of better-known spas, but there is ample space for enlargement.

Dr. FORTESCUE FOX, chairman of the International Society of Medical Hydrology, referred to the medicinal virtues of the water as expressed by their chemical contents, especially the very large quantities of calcium chloride, and said he did not find more than ten or twelve waters in the world which chemically and medically were precisely similar to the water of Bridge of Allan. Both he and Sir Humphrey Rolleston referred to the ideal situation of the spa for that restfulness and atmosphere which are so beneficial for brain workers. Robert Louis Stevenson had many ancestral connections with Bridge of Allan.

Dr. S. JUDD LEWIS, F.I.C., Ph.C., addressed the assembly on the analyses of the waters which he has had under review since 1922. He has shown that the six springs vary very little in composition with season or rainfall, and, comparing his own analyses with those of Professor Thomas Thomson, of Glasgow University (1821, 1827), R. R. Tatlock (1891) and others, that the waters have remained remarkably constant for more than a century. The analyses have been conducted in accordance with the prescription of the International Standard Measurements Committee, of which Dr. Lewis is chairman, with the following results:—Li, 0.37; Na, 200.5; K, 1; Mg, 2.14; Ca, 141.4; Cl, 542.3; Br, 5.58; IO₃, 0.1; SO₄, 22.5; HSiO₃, 1.5; HCO₃, 10.6 parts per 100,000, with traces of Sr, Ba, Fe, Ag, Sn, Mo, NO₃, BO₃.

The hotel is under the management of Mr. W. Holdsworth Lunn, from whom handbooks on the treatments and amenities of the spa can be obtained.

Brewers' Exhibition

THE annual Brewers' Exhibition and Market, opened at the Royal Agricultural Hall, London, N.1, on November 1, contains much to interest manufacturers. Machines for cleansing, filling, labelling and sealing bottles are on display in working order, while many labour-saving devices and new methods of manufacture are shown for the first time. That interest in the various competitions is not lagging is evident from the entries:—Hops, 212; beer, 808; Empire wines, 119. Stands of interest to the drug trade include the following:—

THE GRAESSER-MONSANTO CHEMICAL WORKS, LTD., have a good display of saccharin. BOOTS PURE DRUG CO., LTD., show saccharin, liquid sweetener and soluble saccharin tablets. Flavouring essences, colours and chemicals for use in the mineral water trade are exhibited by THE BRITISH ESSENCE CO., LTD. A. BOAKE, ROBERTS & CO., LTD., show a selection of their specialities, including caramel, Vertose, malt extract and essences. THE LONDON ESSENCE CO., LTD., display soluble essences, preservatives, acids and colourings. EDMER, LTD., PAINE & CO., LTD., and EDWARD SUTCLIFFE, LTD., show malt products.

Cash registers are displayed by THE METRO BUREAU EQUIPMENT, LTD., REMINGTON CASH REGISTER SALES CO., LTD., THE NATIONAL CASH REGISTER CO., LTD. THE BRILLIANT SIGN CO., LTD., exhibit illuminated signs, window letters and Neon signs. THE ECONASIGN CO., LTD., show printing outfits for the production of showcards, etc. K.F.M. ENGINEERING CO., LTD., display electric signs and indicators.

Among those displaying corks are the DEFIANT CROWN CORK CO., LTD., ARMSTRONG CORK CO., LTD., THE CROWN CORK CO., LTD. JEAN O. SAUVEN shows 150 different models of improved perforating machines. Other exhibitors include:—SCHWEPPE'S, LTD. (British wines and cordials); MILTON PROPRIETARY, LTD. (Milton); W. A. WAYLAND & CO., LTD. (hop oil, malt extract and caramels); THE CARBON DIOXIDE CO., LTD.; HASSALL & CO., LTD. (Phospho-Citric); BRITISH SYPHON CO., LTD.; UNITED GLASS BOTTLE MANUFACTURERS, LTD.; JOSEPH LONG (scientific instruments); ORANGE-CRUSH CO. (LONDON), LTD. (fruit beverages); CANNING TOWN GLASS WORKS, LTD.; H. C. SLINGSBY (trucks); UTOL, LTD. (disinfectant); VISCOSSE DEVELOPMENT CO., LTD. (self-fixing bottle capsules); DAW'S FRUIT CORDIALS, LTD. (ginger wine, lemon and orange squashes); YADIL PRODUCTS (1925), LTD.; ACME SHOWCARD CO., LTD. (signs); GONVILLE, JARVIS & CO., LTD. (caramels).

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Wednesday, November 12

Birmingham Pharmaceutical Association, Grand Hotel, Colmore Row, at 7 p.m. Annual dinner, followed by a musical entertainment. Tickets 8s. 6d. single, 16s. 6d. double.

Pharmaceutical Society of Great Britain, Portsmouth and District Branch, Southsea Club, Elphinstone Road, Southsea, at 2.45 p.m. Seventh annual meeting.

Thursday, November 13

Script Sports Club, Hotel Russell, London, W.C.1. Dinner (men only), distribution of trophies. Tickets, 7s. 6d. each, from Mr. J. Hearle, 33 Liverpool Road, London, N.1.

South of England College of Pharmacy, Clapham Winter Gardens, 7.30 p.m. until midnight. Dance, tickets 2s. 6d. each, from the secretary, Sports and Social Club, 186 Clapham Road, S.W.9. Old students and friends welcome.

A BOOK on practical lines, entitled "How to Make the Small Shop Pay," written by Mr. Herbert N. Casson, has been issued at 1s. by "The Efficiency Magazine," 87 Regent Street, London, W.1. The arrangement of the subject-matter is in twenty steps or sub-divisions.

Legal Reports

Collapsible Tube Claim.—On November 3, a Court of Appeal, consisting of the Master of the Rolls and Lords Justices Lawrence and Romer, heard an appeal by the Huntoon Co., Inc., Providence State, U.S.A., from the judgment of Mr. Justice Clauson in the Chancery Division dismissing the action which they brought against Kolynos, Inc., of Chenies Street, London, W.C., for alleged breach of agreement. The appellants claimed to be the owners of the patent rights in a collapsible tube which had a closure cap attached by a wire loop, and the defendants had an exclusive licence for the sale of the tube. The action came before Mr. Justice Clauson on two occasions (*C. & D.*, 1929, II, 678; 1930, I, 654). At the first hearing he found that as the Huntoon Co. had not carried out their obligations they were not entitled in law to expect the defendants to carry out their part of the agreement. From that decision the Huntoon Co. appealed to the Court of Appeal, which decided that the failure of the Huntoon Co. to take proceedings against the manufacturers to protect the defendants' monopoly in preventing infringements of the patented article did not release the defendants from their obligations under the agreement. The Court of Appeal remitted the action to Mr. Justice Clauson for him to decide whether the defendants had committed a breach of clause 9 of the agreement in selling certain tubes and caps without the words "cap patented, No. 137,720." Mr. Justice Clauson, at the retrial, said that the defendants had sold an article without stamping the words upon it. If that article was within the Huntoon Co.'s patent and could not be sold without infringing the patent, the defendants had been guilty of a breach, and the Huntoon Co. were entitled to an injunction to restrain the defendants from offering for sale articles of that character without the proper stamp upon them. He came to the conclusion that there was no obligation on the defendants to stamp the article in question with the patent number, and accordingly the only claim he had to deal with failed. He did not decide the question of the validity of the plaintiffs' patent. From this result the Huntoon Co. now appealed. Sir Arthur Colefax, K.C., for the appellants, said their case was that they were entitled to a declaration that the tube was within the patent and to an injunction restraining the defendants from continuing to use it without marking it in accordance with the terms of the licence. The hearing was adjourned to November 4, when Sir Duncan Kerly, K.C., for the respondents, supported the judgment of Mr. Justice Clauson. The Master of the Rolls, in giving judgment after reviewing at considerable length the material expert evidence in the case, said he thought the decision of Mr. Justice Clauson was right, and that there was no infringement of the claims in the appellants' letters patent. Lords Justices Lawrence and Romer delivered judgment to the same effect and the appeal was accordingly dismissed with costs.

Pharmacy Act Prosecutions.—In Bloomsbury County Court, London, on October 30, Mr. J. F. Van Hoorn, Brixton Road, S.W., was sued for a penalty of £5, on the ground that on July 14 he was keeping open shop for the retailing, dispensing and compounding of poisons, namely, a bottle of Campfield's Syrup, containing codeine and tincture of aconite, contrary to the Pharmacy Act, 1868, Section 15, the defendant not being a duly registered pharmaceutical chemist or chemist and druggist. Mr. H. Glyn-Jones appeared as counsel for the Pharmaceutical Society and the defendant appeared in person. Counsel said that he had given the defendant notice that an application would be made to amend the claim to add an alternative claim of selling, as well as keeping open shop for the selling of poisons. That was based on the old practice that the master was liable for what his assistant sold. Under a judgment of Mr. Justice Hawkins, it was stated quite plainly that a master was liable for a sale by an unqualified assistant. The defendant was the proprietor of a remedy called "Campfield's Syrup"; he carried on this business in a private house

in Brixton, and he (counsel) imagined that a good deal of his business was done through the post. In this case, an inspector of the Society went to the defendant and purchased a bottle of this preparation, and his argument on the matter was that the house was to all intents and purposes a shop, even though there was no shop front. Under the Shops Acts it had been held that a stall on two trestles at a railway station was a shop. Another point was that the preparation that the defendant was alleged to have sold contained codeine, and, according to his own statement, it contained 0.005 per cent. The defendant on his own bottle stated that it had to be called a poison to comply with the Pharmacy Act. He thought the registrar would be bound to find as a fact that there was poison in it. After evidence of purchase had been given, Mr. P. A. W. Self, F.I.C., Ph.C., said he had analysed the contents of the bottle, which contained 0.0035 per cent. w/v of codeine, which was slightly less than the quantity stated on the label. It was possible that that was due to the defendant having put in a salt of codeine. The quantity in the bottle was $\frac{1}{2}$ gr. A medicinal dose in the British Pharmacopœia was $\frac{1}{4}$ gr. to 1 gr., but there were smaller doses. The defendant was not on the Register of qualified chemists. The defendant said that he had explained all the facts to the Society, and the penalty they were claiming was out of all proportion to the crime, or whatever it could be called. The registrar said that the defendant's argument was one that he should address to his local member of Parliament. The case had been proved to his (the registrar's) satisfaction, and he had no option but to inflict a penalty of £5, with costs.—In the same court, Colin & Co., Aldersgate Street, E.C., were summoned for keeping open shop on June 16 for the retailing and compounding of poisons, namely, a tube of "Golden Eye Ointment," labelled "Poison." The registrar said the first question was one of service of the summons. Mr. H. Glyn-Jones, counsel for the Pharmaceutical Society, said that the bailiff's report was that he had placed the summons on the counter, and he saw a woman who refused to accept it. That proved that there was a shop and a shop assistant. Apparently, the defendant was contending that the offence did not relate to him, as he had recently taken over the business, and was trading in the old name of Colin & Co. Counsel asked that the case should be adjourned to subpoena the bailiff. The registrar adjourned the case.—At Oldham, on October 29, William Priestley, hardware dealer, Hollins Road, was summoned at the instance of the Pharmaceutical Society for having sold a bottle containing poison not distinctly labelled with his name and address, not bearing the word "Poison," the name of the poison, and the proportion of poison to the other ingredients. Pleading "Guilty," the defendant said that he did not know he had broken the law until he got the summons. It was stated that he sold Izal containing 28 per cent. of carbolic acid in a bottle labelled "Ammonia." The Bench fined him 15s. on each of the four counts, and ordered him to pay the analyst's fee of £1 1s.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

M. F. LONG, LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists, druggists, opticians, etc. The life directors are: Miss Mary F. Long and Mrs. Ada Long. R.O.: 94 Smithdown Road, Liverpool.

PLUMSTEAD DRUG STORES, LTD. (P.C.).—Capital £100. Objects: To carry on the business of retail and wholesale chemists and druggists, drug merchants and general storekeepers, etc. The directors are: W. R. Dingle, 1 Church Road, Ashford, Middlesex and I. E. Pengilly, 28 High Street, Plumstead, S.E.18. R.O.: 28 High Street, Plumstead. S.E.18.

GENZYME, LTD. (P.C.).—Capital £10,000. Objects: To carry on the business of manufacturers and distributors of and dealers in artificial, chemical or natural fertilisers or fertilising agents of all kinds, makers and rectifiers of sulphuric acid and sulphate of ammonia, phosphate grinders, and other fertilisers, etc. The subscribers are: D. Pope and V. Summers. R.O.: Barking Guano Works, Barking, Essex.

IRVING'S SEA-VITOLDS, LTD.—The petition of the Crown for the compulsory winding-up of Irving's Sea-Vitolds, Ltd., was again before Mr. Justice Maugham in the Chancery Division on November 3. Mr. Buckmaster, for the Crown, said that the company had now made a better offer for the payment of the debt, which included the payment of a portion of it that day. In those circumstances he asked that the petition should be dismissed without costs. His lordship assented.

Private Arrangements

John R. Coleman, 74, Main Street, Cavan, chemist.—At the meeting of the creditors of the above the statement of affairs showed liabilities of £479 11s. 2d. The assets comprised stock, £45 os. 11d.; book debts, £32 1s. 4d.; fittings, £35; and cash in hand £5, or a total of £117 2s. 3d. After allowing £50 for preferential claims, the net assets were £67 2s. 3d., or a deficiency of £412 8s. 11d. It was stated that the present position had been largely brought about through a falling off in the prescription trade. An offer was made of a composition of 2s. 6d. in the £, payable in cash, which it was decided should be accepted. The following are creditors:—Evans Sons Lescher & Webb, Ltd., £203; Hugh Moore & Alexander, Ltd., £54; Ayrtton, Saunders & Co., Ltd., £43; Ensign, Ltd., £10.

Bankruptcy Reports

Re Thomas William Goddard, residing and carrying on business at 32 Warwick Street, Barrow-in-Furness, chemist and druggist.—The first meeting of creditors was held at the office of the Official Receiver, Barrow, on October 10. Mr. P. S. Booth, Liverpool, was appointed trustee with a committee of inspection. Debtor's statement of affairs showed gross liabilities of £2,597 3s. 9d., expected to rank £2,549 os. 9d., assets £611 17s., leaving a deficiency of £1,937 3s. 9d. The debtor attributes his failure to "depreciation of stock after 1920, competition by other businesses opened since, and injudicious buying." The Official Receiver, in his observations, says the debtor, aged thirty-seven, served his time as a chemist and druggist and took over his present business (which was well established) in May 1920 for £1,400. His mother lent him this sum and also £100 for furnishing, etc. He had no further working capital, but a good stock. When he commenced there was no opposition, but two other businesses have been opened not far away since, and this reduced his turnover somewhat. He has done photography and electric battery charging as side lines. He has carried a considerable stock and has had difficulty in paying for it for some time. Latterly he has been pressed by creditors and borrowed more money, but on the sheriff taking possession he filed his petition. The following are among the creditors:—Colgate-Palmolive-Peet, Ltd., £12; Cupal, Ltd., £24; Dalmas, A. de St., & Co., Ltd., £13; Goddard, M. A. & Mrs., £1,750; H. T. Drug Co., Whitehaven, £23; Imperial Dry Plate Co., Ltd., £18; Johnson & Johnson (Great Britain), Ltd., £21; Meggeson & Co., Ltd., £15; Oldfield, Pattinson & Co., £33; Phosferine (Ashton & Parsons), Ltd., £10; Reynolds & Branson, Ltd., £22; United Chemists' Association, Ltd., £30; Woolley, James, Sons & Co., Ltd., £32; Wade & Co., £22; Houghton-Butcher (Great Britain), Ltd., £12.

Stock Exchange Prices

| £1 Shares unless otherwise stated | Dec. 31, 1929 | | Sept. 30, 1930 | | Oct. 31, 1930 | |
|---|---------------|-----|----------------|-----|---------------|-----|
| | s. | d. | s. | d. | s. | d. |
| Allen & Hanburys 7% Prefd. Ord. | 21 | 6 | 21 | 0 | 21 | 6 |
| Amalg. Dental Co., 8% Prefd. Ord. | 18 | 6 | 18 | 0 | 18 | 0 |
| Deferred 5s. | 4 | 1½ | 3 | 6 | 3 | 3 |
| Apollinaris and Johannis, Ord. £1 . . | 10 | 0 | 7 | 0 | 6 | 0 |
| Ayrtton, Saunders & Co., 7½% Pref. | 15 | 0 | 15 | 0 | 15 | 0 |
| Beechams Pills, Deferred 1s. shares | 3 | 3 | 2 | 3 | 2 | 1½ |
| Benger's Food, Ord. | 31 | 3 | 30 | 6 | 29 | 3 |
| Boake (A.), Roberts & Co., 5% Pref. | — | — | 16 | 3 | 16 | 3 |
| Boots Pure Drug Ord. | 125 | 0 | 116 | 3 | 117 | 6 |
| Boots Pure Drug, 7% "A" Prefd. Ord. | 23 | 6 | 23 | 9 | 23 | 9 |
| Boots Cash Chemists (S.), 6% "A" Pref. | — | — | 21 | 9 | 21 | 9 |
| Borax Consol., Dfd. Ord. | 13 | 0 | 11 | 3 | 9 | 9 |
| Bovril, 6% Pref. | 21 | 3 | 22 | 0 | 22 | 6 |
| " Ord. | 23 | 3 | 24 | 6 | 24 | 3 |
| " Dfd. | 37 | 6 | 39 | 0 | 39 | 0 |
| British Cyanides, Ord., 2s. shares . . | 2 | 4½ | 1 | 4½ | 1 | 0 |
| British Drug Houses, The, Ord. . . . | 26 | 3 | 20 | 0 | 17 | 6 |
| British Oil and Cake Mills, Ord. . . | 31 | 9 | 29 | 0 | 28 | 9 |
| British Oxygen, Ord. | 35 | 6 | 27 | 6 | 26 | 3 |
| British Photo. Indus., 6% Cum. Pref. | 14 | 9 | 15 | 0 | 15 | 6 |
| Bush (W. J.) & Co., 5% Pref. £5 . . | 67 | 6 | 65 | 0 | 65 | 0 |
| Cadbury Bros., 6% Pref. | 21 | 3 | 22 | 9 | 22 | 6 |
| Callard, Stewart & Watt, Ord. . . . | 30 | 0 | 31 | 9 | 31 | 3 |
| Crosfield (Joseph) & Sons, 6½% Pref. | 19 | 9 | 21 | 6 | 21 | 6 |
| Drug Incorporated (no par value) . . | — | — | \$77½ | — | \$74½ | — |
| Dubarry Perfumery, Ord. 1s. | 8 | 6 | 6 | 3 | 5 | 0 |
| " 7½% Pref. | 20 | 0 | 20 | 3 | 20 | 0 |
| Eastman Kodak Com. (no nom. value) | \$176 | — | \$202 | — | \$177½ | — |
| Evans Sons Lescher & Webb, Ord. | — | — | — | — | — | — |
| 6s. 8d. shares | 3 | 6 | 3 | 9 | 3 | 6 |
| " " " 6% cum. part. Pref. | 4 | 6 | 5 | 0 | 4 | 9 |
| Field (J. C. & J.), Ord. | 13 | 6 | 11 | 6 | 11 | 3 |
| Galloway (P. H.), Ord. 2s. | — | — | 2 | 9 | 2 | 9 |
| " 7½% Cum. Pref. | — | — | 20 | 9 | 21 | 0 |
| Gossage (William), 6½% Pref. . . . | 20 | 0 | 21 | 6 | 21 | 6 |
| Grout & Co., Ord. | 18 | 9 | 15 | 9 | 16 | 3 |
| Heppells, 7% cum. part. Pref. . . . | 6 | 3 | 3 | 9 | 3 | 9 |
| Hodders, Ord. 1s. | 1 | 1½ | 0 | 8 | 0 | 6 |
| Idris & Co., "A" Ord. | 18 | 9 | 18 | 9 | 18 | 9 |
| Ilford, Ltd., Ord. | 50 | 0 | 46 | 3 | 46 | 3 |
| " 6% Pref. | 19 | 3 | 20 | 6 | 20 | 3 |
| Imperial Chemical, 7% Pref. . . . | 23 | 0 | 22 | 9 | 22 | 3 |
| " Ord. | 26 | 0 | 20 | 3 | 20 | 0 |
| " Dfd. 10s. | 8 | 9 | 5 | 7½ | 5 | 10½ |
| Intern. Sponge Importers 6% Pref. | 7 | 0 | 9 | 3 | 10 | 0 |
| Kent (G. B.) & Sons, 5½% Pref. . . | 11 | 3 | 10 | 6 | 10 | 6 |
| Knight (John), 25% Prefd. Ord. . . | 65 | 0 | 66 | 3 | 67 | 6 |
| Laporte (B.) & Co., Ltd., Ord. . . . | 15 | 0 | 17 | 6 | 18 | 0 |
| Lever Bros., Ltd., 7% Pref. | 22 | 9 | 23 | 0 | 23 | 7½ |
| " 8% Pref. | 23 | 3 | 23 | 1½ | 23 | 6 |
| " 20% Prefd. Ord. 5s. | 13 | 3 | 13 | 0 | 13 | 0 |
| Lewis & Burrows, Ord. | 27 | 6 | 31 | 3 | 30 | 0 |
| " 6% Pref. | 17 | 6 | 17 | 6 | 18 | 3 |
| Liebig's Ext. of Meat, Ord. £5 . . | £15½ | — | £14½ | — | £14½ | — |
| Mellin's Food, 6% Pref. | 7 | 6 | 3 | 0 | 3 | 3 |
| Nathan (Joseph) & Co., 7% Pref. . . | 16 | 3 | 16 | 0 | 16 | 3 |
| " 8% Prefd. Ord. | 7 | 0 | 7 | 6 | 7 | 6 |
| National Drug and Chemical Co. of Canada, 6½% Pref. | 3 | 6 | 2 | 6 | 2 | 3 |
| New Transvaal Chemical Co., 6% Pref. | 20 | 0 | 20 | 0 | 20 | 0 |
| " 8% Pref. | 23 | 0 | 22 | 9 | 23 | 0 |
| Phosferine (Ashton & Parsons) 8% cum. part. Ord. | — | — | 13 | 6 | 12 | 6 |
| Salt Union, Ord. | 37 | 6 | 31 | 9 | 32 | 6 |
| " Pref. | 31 | 6 | 30 | 0 | 31 | 3 |
| Sangers, Ord. 5s. | 7 | 3 | 7 | 9 | 7 | 9 |
| "Sanitas," The, Co., 9% Pref. . . . | 24 | 0 | 24 | 0 | 24 | 0 |
| Sanitas Trust, 10% part. Pref. . . | 23 | 6 | 24 | 6 | 24 | 0 |
| Schweppes, Ltd., Ord. | 30 | 6 | 33 | 3 | 31 | 6 |
| " Dfd. | 32 | 6 | 34 | 9 | 33 | 9 |
| Smith (Stephen) & Co. Ord. 5s. . . | 7 | 3 | 5 | 9 | 6 | 0 |
| Solidol Chem. Co., Ord. 1s. | 0 | 3 | 0 | 1½ | 0 | 1½ |
| Southall Bros. & Barclay, Ord. . . | 107 | 6 | 98 | 9 | 98 | 9 |
| " 5% Pref. | 19 | 3 | 18 | 6 | 19 | 0 |
| Spratt's Patent, Ord. | 48 | 0 | 50 | 0 | 50 | 0 |
| Stevens & Howell, 6½% Cum. Pref. | 20 | 0 | 18 | 9 | 18 | 6 |
| Taylor's Cash Chemists (Lon.) 1s. Dfd. | 2 | 6 | 1 | 10½ | 1 | 7½ |
| Taylor's (Cash Chemists) Trust, 7½% Cum. Pref. | 20 | 6 | 18 | 6 | 18 | 3 |
| " 1s. Dfd. | 3 | 10½ | 2 | 3 | 1 | 10½ |
| United Glass Bottle Man., 6% Mt. | — | — | — | — | — | — |
| Deb. Stk., £100 | £95 | — | £100 | — | £101½ | — |
| Veno Drug Co., 8% Pref. | 18 | 6 | 17 | 0 | 15 | 3 |
| Virol, Ltd., Ord. | 90 | 0 | 70 | 0 | 70 | 0 |
| " 7% Pref. | 21 | 0 | 21 | 3 | 21 | 6 |
| White (A. J.), Ltd., Ord. 10s. . . . | 11 | 3 | 13 | 9 | 13 | 9 |
| White (Timothy), 7½% Prefd. Ord. | 22 | 0 | 20 | 3 | 20 | 3 |
| " 1s. Dfd. Ord. | 2 | 9 | 2 | 4½ | 2 | 0 |
| Wright Layman & Umney, 6% Pref. | 20 | 0 | 20 | 0 | 21 | 3 |

Pharmaceutical Society of Great Britain

Council Meeting

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C.1, on November 5, Mr. A. R. Melhuish (president) in the chair.

PROCEEDINGS ON NOVEMBER 3 AND 4

The Council met on November 3 to consider matters connected with the consolidation of the examination regulations in the light of a report of a special subcommittee, and the observations of the Boards of Examiners and the North British Executive upon that report. The Council's decisions will be published.

Among the business dealt with at the meeting on November 4 was a letter from the Privy Council Office inviting the observations of the Society upon a resolution passed by the City Council of Stoke-on-Trent in the following terms:—

"That in view of the recent cases of poisoning of children by arsenic in sweets and of the great risk and danger to the public owing to the lack of proper control and supervision in the sale and distribution of arsenic used for industrial purposes, the Ministry of Health be requested to take the necessary steps to ensure such control and supervision."

The secretary was instructed to reply that in the Council's opinion it was difficult to see that any regulations could be framed which would prevent the type of accident which occurred in the case referred to, but that the facts of the case showed that it is desirable that the sale of arsenic should be restricted to as limited a number of channels as possible.

The University of London wrote stating that the Senate had decided to postpone for one year the consideration of the application for the Pharmacological Laboratories to be admitted as a school of the University. The secretary was instructed to ask if the University would be prepared to give their reasons for this postponement.

The Guild of Public Pharmacists wrote in appreciation of "the valuable work that has been done in connection with institutional pharmacy by the Council of the Pharmaceutical Society and by the Society's officials."

The Institute of Chemistry wrote stating that it is the intention of the council of the Institute to take steps in the near future to obtain a supplementary charter with the object of securing a title to distinguish chemists as represented by the Institute from pharmacists, and offering to forward particulars of the charter of the council. The letter also stated that it was the intention of the council of the Institute to suggest to the Home Secretary that it should be represented on the proposed Poisons Board under the draft Pharmacy and Poisons Bill. The secretary was instructed to accept the offer of the Institute to send particulars of the proposed charter, and to say that in view of the fact that the Bill provides that the selection of the four additional members of the Poisons Board shall rest with the Home Secretary, the council feel that it is not desirable for them to appear to seek to influence the Home Secretary in the exercise of his discretion by expressing an opinion upon the claims of any particular organisation to be represented on the Board.

The Society's patent agents notified the withdrawal of the application for the registration of the word "Lysomol-X" as a trade mark.

Resolutions upon the draft Pharmacy and Poisons Bill and other subjects were received from various branches of the Society.

The report of the Law Committee gave details concerning penalties paid, legal proceedings taken, and the inspection of shops. The Committee recommended that the registrar be authorised to institute proceedings for the recovery of twenty penalties for "selling poison," ten penalties for "keeping open shop," three penalties for "a breach of Section 3 of the Poisons and Phar-

macy Act, 1908," and four penalties for the use of restricted titles. The report was adopted.

ILLNESS OF THE EX-PRESIDENT

THE PRESIDENT, on the resumption of the proceedings on November 5, said that members of Council would be very sorry to hear that Mr. Parry had been laid aside for a month under medical orders. They would all wish him a speedy recovery and an early return to his work on the Council, in which he had taken such great interest for so many years.

DEATHS

THE PRESIDENT next referred to the death of Mr. J. F. Harrington, for twenty years a member of the Council, vice-president from 1906 to 1908, and president from 1909 to 1911. He was the first chemist and druggist to be elected president. He retired from the Council in 1918, and from active business two years later. He (the president) specially remembered Mr. Harrington, who was one of the early presidents of the Western Association, and he well recollected him attending the various functions and gracing them with his handsome presence and genial personality. Mr. Jenkin, Mr. Skinner and the secretary were present at the funeral, but he (the president) regretted that he himself was unable to attend.

THE PRESIDENT also made sympathetic allusion to the death of Mr. J. E. Purvis, a member of the Board of Examiners for England and Wales. Mr. Purvis had always taken a keen interest in the work of the Society.

MR. PECK said he had worked with Mr. Purvis for three or four years on the Board of Examiners, and he had always spoken of the happy relations which existed between him and the Society and its officials. They had also worked together on various committees in Cambridge. Mr. Purvis was a man of a kindly and sympathetic nature, and would be sadly missed by a wide circle of friends.

The Council agreed that a letter of sympathy should be sent to the relatives, and all the members present stood in silence to signify their respect.

ELECTIONS AND RESTORATIONS

One hundred and one persons were elected members of the Society, and eight as student-associates. A number of persons were restored to the Society. The registrar reported that 225 persons had been registered as apprentices or students.

BOARDS OF EXAMINERS

The following were appointed Members of the Board of Examiners for England and Wales for the ensuing year:—Bentley, Arthur O.; Borrowman, Agnes T.; Brady, Oscar L.; Brindle, Harry; Carter, Nellie; Coates, John E.; Davis, Harold; Driver, John E.; Evans, John; Fouracre, Robert; Fritch, Felix E.; Furnival, Stephen; Greenish, Henry G.; Grier, James; Hampshire, Charles H.; Hemming, Frederick; Highfield, Fred C.; Hill, Thomas G.; Howarth, Willis O.; Jones, H. Humphreys; Lewis, William H.; Linnell, Wilfred H.; Lownds, Louis; Milner, Samuel R.; Newman, Frederick H.; Peck, J. Wicliffe; Preston, Ernest; Priestley, Joseph H.; Rankine, Alexander O.; Richardson, Donald H.; Salisbury, Edward J.; Self, Percy A. W.; Sutherland, George A.; Taylor, Archibald L.; Thoday, David; Ware, Alan H.; Webb, Harry W.; Williams, Kenneth E. N.; Young, Arthur E.

MR. HUMPHREY asked who were the new members of the Board.

THE SECRETARY replied that the new members were Professor Coates, of Swansea, and Professor Thoday, of Bangor.

MR. PECK suggested that when the duties of the examiners were allocated, provincial members of the

Board should be included among the examiners for Ph.C. examinations.

The following were appointed members of the Board of Examiners for Scotland for the ensuing year:—Blackie, Joseph J.; Dall, John; Gilmour, John; Graham, Robert J. D.; Hunter, Matthew V.; Kendall, James P.; Meldrum, Martin; Milne, James R.; Perrins, Gordon; Ramsay, John H.; Smith, William W.; Stout, Henry.

BENEVOLENT FUND COMMITTEE

The report of the Benevolent Fund Committee showed that twelve applications had been considered, and grants made ranging from £7 10s. to £30. The quarterly return of the Committee gave the total number of applications considered (seventeen), and grants made (fourteen), the total amount disbursed being £473. The following list of special contributions was submitted:—A. Wander, Ltd., £100; Southport Pharmacists' Association, £14 18s. 6d.; Devon Branch, R.P.U., £10; East Cumberland Branch, £10; Newcastle and District Branch, £5 5s.; Newcastle and District Branch, £3 2s. 7d.; Lancaster, Kendal and District Branch, £4 10s.; Reigate, Redhill and District Pharmacists' Association, £4 4s.; F. S. Rose, £4 4s.; Great Yarmouth Pharmaceutical Association, £2 13s. 6d.; R. Smith, £1 10s.; F. G. Holoran, 10s. *Legacy*.—Lowe, Sam Peter, £50. *Orphan Fund*.—Reigate, Redhill and District Pharmacists' Association, £2 2s.

Mr. BEARDSLEY, in submitting the list, made special reference to the handsome donation from Messrs. Wander, the continued interest shown by Southport pharmacists, the gift from the Devon Branch of the Retail Pharmacists' Union, and the result of the special appeal made by Mr. Hardy in East Cumberland.

Mr. HUMPHREY said he was particularly pleased to hear of the legacy from Mr. Lowe, of whom he had pleasant recollections in his own early days in Sheffield. He also mentioned that the annual festival at Liverpool, which he had attended, had resulted in £90 being raised. The report was adopted.

WAR AUXILIARY BENEVOLENT FUND

The Committee of this fund reported that they had considered seven applications, and had made, or now recommended, grants ranging from £6 6s. to £52. The quarterly summary of the Committee's disbursements showed that seven grants had been made, totalling £197. The report was adopted.

FINANCE COMMITTEE

The financial statement showed that receipts since the last meeting, including a balance of £30 4s. 4d., amounted to £8,669 0s. 6d., comprising the following items:—Subscriptions, £100 6s.; registration fees as apprentice or student, £514 10s.; registration fee as chemist and druggist, £14 14s.; examination fees, £6 6s.; certificates of qualification, £1 1s.; School of Pharmacy—fees, £1,175 3s.; School of Pharmacy—instalment of University grant, £125; Pharmacological Laboratories, £194 19s. 10d.; penalties, £101 2s. 11d.; "Pharmaceutical Journal," advertisements, etc., £1,645 17s. 4d.; Quarterly Journal, £14 16s.; "Pharmaceutical Pocket Book," £30 18s. 1d.; Year-Book Index, £1 2s. 11d.; Registers, £1 10s.; examination questions, £6 1s. 7d.; Pharmaceutical Press publications, £44 2s. 7d.; B.P. Codex, £47 15s. 7d.; "Forensic Pharmacy," £21 5s. 10d.; rents and deposit interest, £692 4s. 11d.; fire insurance claim, £70; F.S.S.U., £14 10s. 3d.; sundries, £14 18s. 4d.; transferred from deposit account, £3,800. Payments ordered at the last meeting amounted to £8,647 18s. 3d., leaving a balance of £21 2s. 3d. The balances on the other accounts were:—Benevolent Fund (current account), £15 5s. 5d.; Benevolent Fund (donation account), £36 4s. 9d.; War Auxiliary Benevolent Fund, £8 5s. 11d.; Orphan Fund, £7 9s. 3d. The report recommended that accounts amounting to £6,502 12s. 1d. be paid, and that the action of the secretary in making payments amounting to £1,190 4s. 2½d. be approved. The report was adopted.

This was all the public business.

Special General Meeting

A special general meeting of the Society was held in the Council chamber at Bloomsbury Square, on November 5, the president (Mr. A. R. Melhuish) in the chair. The secretary having read the notice convening the meeting.

The PRESIDENT read and moved a resolution authorising the sale of the Society's freehold ground rent and reversionary interest in certain property.

The VICE-PRESIDENT seconded.

The PRESIDENT, before putting the resolution, made a brief explanation of its purport and invited discussion.

Mr. G. A. TOCHER (London) remarked that the majority of the members were quite willing to leave the matter in the hands of the Council.

The resolution was carried unanimously, and the proceedings ended in a vote of thanks to the chairman, proposed by Mr. F. E. BILSON and seconded by Mr. A. H. JENKIN.

Branch Meetings

Aberdeen.—The Aberdeen and North-Eastern Scottish Branch of the Pharmaceutical Society held a meeting on October 29, Provost W. S. Taylor (Inverurie) in the chair. Supporting the chairman were Mr. J. Rutherford Hill (resident secretary in Scotland), Dr. J. F. Tocher, Mr. C. Simpson, Mr. J. Farquhar, Mr. W. F. Hay and Mr. W. Watt (secretary). The chief subject was the reading and discussion of the president's speech to delegates at the recent Cardiff Conference, on an amendment of the draft Bill appended to the report of the Departmental Committee. Mr. Alexander (Strichen) protested against a registration of premises, and deprecated a multiplicity of licences. Mr. Reid (Fyvie) asked why the present poisons Regulations were allowed to be openly contravened in rural areas. Mr. Inglis (Turiff) had the same query. Mr. Hill said that chemists cognisant of such breaches of the law should immediately lodge complaints. He explained the Council's attitude towards Part 2 of the Poisons List. Mr. Garrow (Keith) objected to there being only five nominees of the Society among the fourteen people constituting the Advisory Committee of the Poisons Board, and suggested seven as the Society's quota. This was approved by the meeting. Mr. Dugan asked if the proposed new inspectors' work would be whole-time. The answer was in the affirmative. Mr. M. C. Ross asked if apprenticeships in the wholesale were accepted by the Society. Mr. Hill replied that, under certain conditions, they were. Dr. Tocher said he would have liked the Society to have framed a Bill of their own. He warned pharmacists that farmers would strenuously resist all attempts at diminution of their agricultural supplies. He reiterated his advocacy of drug-samplers under the Food and Drugs Acts being qualified pharmacists. If, and when, that part of the prospective Pharmacy Acts dealing with inspection of pharmacies became law, those inspectors could perform the dual function of drug-sampling and pharmacy-inspecting. Dr. Bryant moved that this suggestion be sent to the Pharmaceutical Society. Mr. Weir (Kemnay) seconded this, and it was carried.

London (W.).—A meeting of the West London Branch was held on November 5, the chairman (Mr. T. Morley Taylor) presiding. A statement on the draft Pharmacy and Poisons Bill was made by the president of the Pharmaceutical Society (Mr. A. R. Melhuish). The proceedings were private.

Plymouth.—At the annual meeting of the Plymouth and District Branch of the Pharmaceutical Society, on October 30, the following officers were elected for the ensuing year:—*President*, Mr. Alan H. Ware; *Secretary*, Mr. T. B. Harvey; *Treasurer*, Mr. O. H. Attewell. —At a special meeting of the Branch a presentation was made to Mr. F. A. Goodwin on the occasion of his impending departure. The presentation consisted of a silver-plated pewter tea service and tray.

Festivities

Surgical Instrument Manufacturers' Dinner

THE annual dinner of the Surgical Instrument Manufacturers' Association (Inc.) was held at the Holborn Restaurant recently. Proposing the toast of the "Association," Mr. A. W. Down said there were still a few firms who were not with the association, and who gave preference to foreign manufacturers rather than those in this country. Replying to the toast, Mr. Patrick C. Maw, the chairman, referred to the competition encountered from foreign firms, which, he said, would be overcome as soon as some form of protection was afforded to the trade.

Coming-of-Age Celebration

IN celebration of the coming of age of the United Chemists' Association, Ltd., a dinner and dance was held on October 23. The toasts at dinner were those of "The King," "Our Founder," "The United Chemists' Association, Ltd.," "The Old Brigade," "Ucal Employees," "The Ladies" and "The Visitors." In speaking of the founder, Mr. G. W. Evans (vice-chairman) referred to Mr. Harold Miller's perseverance and sportsmanship. He gave a brief history of the rise of U.C.A.L., and looked forward to the day when they would celebrate their jubilee. Mr. Miller, in reply, said U.C.A.L. had kept faith both with the chemists and with the public. Mr. J. Hearle, in reply to the Mayor of Cheltenham (Alderman C. H. Margrett), said that a business rested on principles, policy, performance, products and *personnel*. A man of courage and foresight gave them their principles. Mr. J. A. Hogg, who proposed "The Old Brigade," was replied to by Mr. W. Wolstenholme and Miss M. Holt. Messrs. H. G. Trilby and A. Thornton Jones replied to Mr. A. E. Young's toast of "The Employees." Later in the evening Mr. P. J. Radford asked Mr. Miller to accept a cut-glass and silver tangle and silver tray, and Mrs. Miller a handbag, as a token of the employees' appreciation. Mr. Miller replied in a happy speech.

Harrow Chemists at Dinner

THE annual dinner of the Harrow Branch of the Pharmaceutical Society was held on October 22, Mr. H. B. Sharman in the chair. There was a good attendance. The loyal toast was given by the chairman, who, after a musical interlude, proposed the toast of "The Pharmaceutical Society." In the course of his remarks, Mr. Sharman referred to incidents of his early career in pharmacy and bore testimony to the excellent work done by the Society. He thought compulsory membership of the Society would prove to be highly beneficial, and was glad to see that this was one of the provisions of the draft Pharmacy Bill. In conclusion, he spoke of the good work for pharmacy accomplished by Mr. John Humphrey, whose name was coupled with the toast. Mr. Humphrey, in reply, referred to his long and happy association with pharmacists in the Harrow district, and expressed his satisfaction at being present. Speaking of the draft Bill, he said he had just been reading a full report of the meeting of the delegates at Cardiff, and he was doubtful if the result of that meeting would count for much. With regard to compulsory membership of the Society, he would warn them that this might not be an unmixed blessing, and he also doubted if many shopkeeping pharmacists would welcome the imposition of the proposed annual fee for keeping open shop. Mr. Abernethy proposed the toast of "The Harrow Branch," remarking that it was fortunate in having so many distinguished pharmacists as members. He stressed the need for unity among pharmacists, and coupled with the toast the name of the secretary, Mr. J. F. McNeal. In his reply, Mr. McNeal also called for unity. The toast of "The Visitors" was proposed by Miss Hill, and suitably replied to by Mr. Reid. The musical programme was continued to the end of a most enjoyable evening, with an interval for the drinking of the health of the chairman.

Smoking Concert at Liverpool

THE annual smoking concert of the Liverpool Chemists' Association in aid of the Pharmaceutical Society's Benevolent Fund took place on October 29, Mr. L. Moreton Parry (president) in the chair. The chairman, in introducing the guest of the evening, Mr. John Humphrey, said they had been friends and colleagues on the Council. He first knew Mr. Humphrey as editor of "The Pharmaceutical Journal," in which position he had left a great mark on British pharmacy. Mr. Humphrey was a solid worker on behalf of their profession. In the course of an address Mr. Humphrey said that for nearly ninety years they had made provision for the needs of their distressed brethren, and for the widows and orphans of chemists and druggists. Since the inception of the Benevolent Fund no less than £168,000 had been distributed. Their annual festival was always richly productive, and it was peculiarly gratifying to observe how Liverpool kept the flag flying. They had not allowed difficult times in business to block the fount of benevolence, as shown by the fact that last year their total contributions came second in the list. In future years their task might be harder, because—as they were all doubtless aware—there was a proposal that the State should compel them to contribute more largely towards the upkeep of the Pharmaceutical Society and the carrying on of its work. A suggested way out of any anticipated difficulty in this respect was that the chemist and druggist should endeavour to increase his business turnover and profits, by taking steps to extend the pharmacist's legitimate province. But they must not expect to attain to this position by means of Acts of Parliament, though they ought undoubtedly to take advantage of the opportunity offered by the draft Bill now under consideration to prepare the way towards attaining it. They should rely upon themselves to capture the business which now goes astray. The chairman said he was not going to supplement Mr. Humphrey's remarks. He knew that although they were passing through a stormy time, the Liverpool collection would be equal to anything in the past. The collection taken amounted to £90.

Association Meetings

Brighton.—The annual meeting of the Brighton and Hove Association of Pharmacy was held on October 30, Mr. A. J. Franklin (president) in the chair. The report and balance sheet was passed. The president congratulated the secretary on the work done and the good financial position shown. The following officers were elected for the ensuing year:—*President*, Mr. A. J. Franklin; *Vice-Presidents*, Messrs. K. Padwick, F. W. Burgess, J. E. Vickers, J. A. Dyson; *Treasurer*, Mr. H. R. Gwatkin; *Librarian*, Mr. H. B. Mackie; *Joint Secretaries*, Mr. E. Beckwith and Mr. F. J. Flatman; *Committee*, Messrs. H. A. Bancks, D. Foster, E. A. Jones, J. Plowright, C. G. Gates, A. Guy, F. A. Thomas. Mr. A. J. Franklin gave an interesting address on Photographic Dealers' Association matters. Mr. Edgar Jones gave an instructive talk on National Health Insurance work.

London (Co.).—A meeting of the Executive Committee of the London County Pharmaceutical Association was held on October 29, Mr. J. Hearle (president) in the chair. The Committee placed on record their thanks and appreciation of the valuable services rendered by Mr. A. R. Melhuish as a member of the Committee since 1912. The following officers were appointed for the ensuing year:—*President*, Mr. E. A. Atkins; *Vice-President*, Mr. G. B. Barnard; *Secretary*, Mr. G. A. Tocher. The financial statement, which showed a small balance in hand, was received and adopted. The General Purposes Subcommittee reported particulars regarding chemists' accounts submitted under the South Metropolitan Gas Company's copartnership insurance scheme. The Subcommittee also reported on the position with regard to several trade problems.

Retail Pharmacists' Union

Executive Meetings

MEETINGS of the Executive of the Retail Pharmacists' Union and Chemists' Defence Association were held at 4/5 Queen Square, London, W.C.1, on October 28. Mr. H. H. Marshall in the chair. Mr. Marshall extended a hearty welcome to Mr. Challinor (Area 2) on behalf of the Executive.

COUPON GIFT SCHEMES

The Executive directed that a resolution be sent to the National Chamber of Trade protesting against all such schemes as being inimical to the interests of the retail trade. The executive also directed that a resolution be sent to the Photographic Dealers' Association protesting against gift schemes in connection with the sale of cameras, etc.

TESTING OF APPLIANCES

A report was received from the Manchester Testing House regarding the samples which had been examined during the period 1925-30. The report showed that there had been a decrease year by year in the percentage of dressings found to be inferior in quality to the requirements of the B.P.C., and also in the number which had been deficient in quantity as compared with the quantity prescribed.

DRAFT PHARMACY BILL

The Executive considered further the draft Pharmacy Bill in detail, and made notes on the amendments considered to be necessary. An invitation had been received from the Pharmaceutical Society to meet the Council in joint conference. The invitation was accompanied by a memorandum which the president submitted as the basis of the discussions at the Conference. The Executive accepted the invitation.

C.D.A. Affairs

The secretary reported that of the sixteen cases outstanding since the last meetings, three might be considered closed, and settlements had been made in the following four cases:—(a) Lambs died after dipping: veterinary surgeon's fee paid, £3 13s. 6d. (b) Two claims for injuries to fingers after treatment for warts

with nitric acid; claims settled by payments of £25 and £3. (c) Damage to car caused by cycling errand-boy; claim settled by payment of £1 5s. 4d.

The secretary reported that nine new cases had arisen during the month, eight of which had been settled:—(1) Damage to coat torn on member's shop front (two cases); claim settled by payment of 18s. 11d. and 7s. 6d. (2) Damage to car caused by cycling errand-boy; claim settled by payment of 17s. 6d. (3) Damage to motor cycle by cycling errand-boy; claim settled by payment of £3 2s. (4) Damage to coat by oil from defective bottle; claim settled by payment of £3 10s.; (5) Injuries to foot caused by carbolic acid supplied for carbolic oil; claim settled by payment of 18s. (6) Damage to coat by calamine cream spashed over it; claim settled by payment of 12s. 1d. (7) Damage to handbag and contents by elixir of vitriol supplied in cracked bottle; claim settled by payment of 15s.

The secretary reported that two members had been defended in respect of summonses under the Dangerous Drugs Act. In one case the member had been fined £5 on each of two summonses, and in the other case the two summonses had been withdrawn unconditionally. A member had been summoned for selling turpentine liniment 50 per cent. deficient in camphor. The case had been withdrawn unconditionally.

Branch Meetings

Warwickshire.—The Warwickshire Branch met at Leamington on October 30, Mr. Hutton in the chair. It was resolved to take no further action for the present in respect of the proposed "Sign of the Qualified Chemist." The funds of the Branch being overspent, it was decided to make a further call on members, with a view to reviving the annual subscription. The secretary was instructed to draw the attention of well-known soap manufacturers to the extensive cutting of their proprietary, and ascertain what steps had been taken to prevent it.

Plymouth.—At a recent meeting of the Plymouth and District Branch Mr. C. C. U'Ren was elected *President*, and Mr. J. H. Lewis *Secretary*.

Pharmacy Week

PHARMACY WEEK, held this year from November 1 to November 8, has, judging from the Press cuttings and other items of information which have reached us, attracted quite as much attention as its predecessor of a year ago. Brief references have appeared in "The Times," "The Liverpool Post," "The Birmingham Mail," and other papers; and the "Daily Mail" of November 1 had an article on pharmacy entitled "Traditions of a Great Profession," extending to about twenty-eight inches, though the article was flanked on three sides by advertisements of well-known proprietaries. We have received the following notes on district displays:—

BLACKBURN.—The pharmaceutical effort, if not quite on the ambitious scale of a year ago, was a striking demonstration, which created widespread interest. This year, with the acute depression in industry, it was not thought advisable to proceed on the same lines; the result was that this little extra "punch" was absent, in contrast to the methods at Blackpool, where a three-column "special" claimed attention. The window displays in Blackburn were of various types: some concentrated on accurate dispensing, and displayed pestle and mortar, analytical balances, and so forth. Others made special shows of drugs. Many of the chemists received encouraging support from their customers.

KEIGHLEY.—A long double-column advertisement was published in the local Press by the local chemists. Then followed the names and addresses, with telephone numbers, of eleven chemists at Keighley, one at Silsden and one at Haworth. The composite advertisement was accompanied by a half-column special article in the news, and all the chemists concerned made special window and counter displays featuring "the Sign of the Chemist" and emphasising the scientific training and qualification of the calling.

LANCASTER.—Much enterprise has been shown by several Lancaster firms during Pharmacy Week. Vince & Co. contrast the old with the new. Bate & Gorst have a special window show of insulin and malt extract. Mr. W. C. Eastwood displays medicated wines and perfumes. Mr. R. T. Simpson makes a feature of photographic and toilet goods. W. J. Lund & Co., Mr. C. Spenceley and Mr. A. D. Fox give prominence to proprietary and other lines. Cuthberts (Lancaster), Ltd., make a good household exhibition; while Mr. J. B. Shattock has many of his own proprietaries on view. Mr. W. Raked has a smart window of general goods.

SHEFFIELD.—"The Sheffield Daily Independent" had a "Pharmacy Week Page" comprising a general article on training and responsibility of the chemist, together with displayed announcements by twenty-eight local chemists and companies.

Statistics of the World's Narcotic Drugs

AT the request of the secretariat of the League of Nations, Dr. O. Anselmino has prepared a report (C. 356. M. 148. 1930. XI) giving statistics of the manufacture of narcotic drugs for the years 1925-28 inclusive. The questions to be answered were:—

(1) How much morphine (distinguish carefully between morphine for use as such and morphine for manufacture in (a) drugs covered by the Convention, such as heroin, and (b) drugs not covered by the Convention, such as codeine), heroine and cocaine have been manufactured by each of the manufacturing countries during the years 1925, 1926, 1927 and 1928?

(2) What relation do the total amounts so manufactured in each year bear to the world's legitimate requirements of such drugs for scientific and medical purposes?

(3) What relation do the total amounts so manufactured in each year bear to the probable amounts of these drugs illicitly consumed during these years? (In this connection it would be necessary to examine the problem as to whether or not there is any indication that supplies for the illicit traffic have been drawn from sources other than those revealed in the annual reports of Governments received by the Advisory Committee.)

(4) How much of the yearly output of each of the manufacturing countries in the years mentioned has found its way into the illicit traffic?

The following is a summary of Dr. Anselmino's first table, which gives details for each of the four years of the manufacture of morphine, diamorphine and cocaine:—

| Country | Morphine | | | | Diacetyl-morphine | Cocaine |
|-------------------|-------------------|----------------------------|--|------------------|-------------------|-------------------|
| | Total manufacture | Used for diacetyl-morphine | Used for drugs not covered by the Convention | Morphine as such | Total manufacture | Total manufacture |
| France .. | 17,778 | 7,400 | 3,960 | 6,418 | 8,360 | 3,398 |
| Germany .. | 66,620 | 4,237 | 42,192 | 20,191 | 4,950 | 10,544 |
| Great Britain .. | 19,850 | 1,135 | 10,376 | 8,384 | 1,311 | 129 |
| India .. | 235 | — | 3 | 232 | — | — |
| Italy .. | 49 | 9 | 2 | 38 | 10 | — |
| Japan .. | 7,260 | 3,072 | 62 | 4,126 | 3,573 | 5,891 |
| Netherlands .. | 34 | — | — | 34 | — | 2,720 |
| Switzerland .. | 22,241 | 11,228 | 8,258 | 2,755 | 12,795 | 269 |
| U.S.A. .. | 29,282 | — | 17,477 | 11,805 | — | 3,737 |
| U.S.S.R. .. | — | — | — | — | — | 1,608 |
| Total .. | 163,349 | 27,081 | 82,330 | 53,983 | 30,999 | 28,296 |
| Average remainder | 40,837 | 6,770 | 20,583 | 13,496 | 7,750 | 7,074 |

All figures show kilograms in terms of basic alkaloids.

Except in the few instances in which the amounts have been estimated, the figures have been taken from official reports. Under the heading "Great Britain" the report states:—"The morphine figures are considerably lower than those given in the Advisory Committee's statistics, as the latter's statement shows base and salt combined without the required reduction being made. The correctness of the figures contained in the table is proved, for example, by the fact that there is the same proportion between the figures (reduced and recalculated) of the amount of morphine used for manufacturing diacetylmorphine and the quantity of diacetylmorphine obtained from the morphine used, as in the case of the corresponding figures for Germany and Switzerland. The four consecutive years show a steady and progressive decrease in manufacture and transformation, except that the highest figure for diacetylmorphine occurs in 1927, which is the year of lowest output in the case of Germany and Japan. It is assumed that the quantities of crude morphine imported from India were used as raw material for manufacturing morphine salts and are comprised in the quantity of manufactured morphine and its salts shown in the annual reports."

As to the United States, Dr. Anselmino remarks that the reports of the United States of America "give the figures of sales instead of the figures of manufacture.

The table shows as manufactured the amounts sold by manufacturers on the assumption that only quantities which have been previously manufactured can be sold and that there are no stocks left in factories, or that such stocks remain more or less constant. This view is justified by the striking uniformity in the quantities of morphine sold as such. . . . The quantities of morphine required for preparing codeine were obtained by computing the amounts of codeine sold on an assumed proportion of 100 parts morphine = 94 parts codeine. This proportion corresponds to the actual manufacturing yield, which is considerably less than the theoretical."

The report proceeds to discuss the probable average consumption of these four substances and their preparations throughout the world, leaving out of account consumption for veterinary purposes. "Assuming that the total output of the manufacturing countries here referred to was used for medical purposes—an assumption which we know to be baseless—the four years' average consumption per head of the world population (taking the latter, for the purpose of a rough estimate, at 2,000, instead of 1,941 millions) would be:—Morphine, 6.75 mgrm.; codeine, 10.3 mgrm.; diacetylmorphine, 3.9 mgrm.; total morphine, 20.4 mgrm." The consumption for veterinary purposes is intentionally ignored. According to the figures obtained for cocaine—which, in contrast to morphine, are based in the case of three countries on estimates—the annual quantities show a tendency to rise, the increase being 10 per cent. in the last two years over the first part of the period—

the annual average of 7,074 kilos for a population of two milliards gives an amount of 3.5 mgrm. per year per head.

The section of the report devoted to illicit traffic in these drugs states that the total weight in kilograms seized during the four years under review is as follows:—

Morphine, 2,875; diacetylmorphine, 3,700; benzoylmorphine, 500; cocaine, 975. To these quantities must be added the following amounts in kilograms which are reported as having been illicitly circulated but not seized during the same period:—Morphine, 2,900;

diacetylmorphine, 3,900; all kinds of morphine, 6,800; cocaine, 100. It is added, however, that for reasons given the report cannot show the figures for codeine, nor, consequently, the total for morphine; the estimate of the quantities that find their way into illicit traffic must therefore remain incomplete.

BURMA DRUG RESTRICTIONS REMOVED.—The Excise department of the Government of Burma had long required qualified medical men and registered practitioners to take out a licence for the possession of morphine, opium and cocaine. This had been regarded as a source of annoyance by them, as, according to them, such restrictions did not exist elsewhere. The Excise authorities have now cancelled these requirements, and an approved practitioner may now possess opium for use in his practice, morphine drugs with a morphine content of not more than 60 grains in the aggregate, cocaine drugs with a total cocaine content not exceeding quarter of an ounce, or, in special cases, such larger quantities as may be sanctioned by the Excise Commissioner. The rules for the maintenance of a register by registered medical practitioners and inspection of such registers by Excise officers have also been cancelled.

Cholesterin Hair Lotions

A New Treatment for Falling Hair

ONE of the most prevalent diseases of the scalp is loss of hair, especially in Alopecia seborrhoeica, which is characterised by an excessive increase in the secretion of sebum by the scalp, and which is the primary cause of falling hair. While indeed at the inception of this disease only an increased activity of the sebaceous glands is noticed, and a consequent excessive secretion of sebum, there takes place later an abnormal hardening, or formation of horny substance on the scalp, and finally there is the actual destruction of the glands themselves. Owing to this abnormal development of horny substance, the superficial cells themselves become horny, and they no longer show the compact form and coherence of normal cells, the best and natural protection against external influences. The cells loosen, disintegrate and separate, and fall off as scales, or are easily combed away. But the longer this abnormal formation of horny substance is allowed on the epidermis so more and more does it cover the root sheaths of the hairs, until finally a complete horny layer is spread over the scalp and around and over the hair roots. When this stage of the disease is reached the hair begins to fall out, and as a symptom of the process going on a slight reddening or inflammation of the scalp is often found, and there is also a considerable formation of dandruff.

Up to recently sulphur preparations have almost exclusively been used in treatment of falling hair, due to seborrhoea, with more or less satisfactory results. New methods of treatment have, however, been adopted since Professor Dr. R. Jaffe, of Frankfurt a. M. showed the connection in the living organism between cholesterin metabolism and hair growth. A considerable portion of the secretion of the sebaceous glands is composed of fats of high molecular weight. Cholesterin is a substance found in many parts of the body, including the brain, gall bladder and gall stones. In a degraded form it is present in the products of secretion of the skin, e.g., it is very plentiful in the wool fat of the sheep, in which it is present to about 54 per cent. Cholesterin, which has the action of exciting growth, shares with the phosphatides the work of building up cells. If on account of constitutional disturbance, e.g., change in the organism on account of illness, etc., there results a cholesterin deficiency of the sebaceous glands, the development and growth of hair will be affected, and as a consequence the above mentioned loss of hair will be brought on.

Action of Cholesterin

Attempts to influence favourably the loss of hair due to seborrhoea has resulted in the use of cholesterin, and the results of experiments show that the application of cholesterin to the abnormally horny processes seems to restore the condition to normal. The use of an application of cholesterin is opposed entirely to the usual treatment of sebaceous alopecia. A complete removal of fat is not attempted, but fatty substance is added in the form of cholesterin with the object of restraining the excessive secretion of the sebaceous glands, instead of fat removal by means of chlorinated hydrocarbons, alkali containing hair lotions, head soaps, etc. In conclusion it can be said that the use of cholesterin in a hair lotion promises success where falling hair is due to a destroyed or an abnormal functioning of the sebaceous glands. Dandruff and scales disappear in about two weeks; in chronic cases the control is effected in about a month or so. While treatment with cholesterin preparations is being carried out the hair must not be washed too often; although cholesterin is unaffected by the alkali produced in a shampoo with soap, the latter may cause considerable irritation of the scalp.

Solubility

The preparation of cholesterin hair lotions is not devoid of difficulty, as solution of the cholesterin is not easy. The white saponaceous plates or flakes of cholesterin dissolve in ether, chloroform, fatty and volatile oils, and in strong alcohol, with increased solubility in hot alcohol. The choice of solvents must be carefully considered in the preparation of hair washes. Preparations containing concentrated spirit can induce a troublesome itching of the scalp. Very little data are given in literature as to the solubility of cholesterin in solvents generally used in cosmetics. In diluted spirit, which is largely used in the preparation of hair lotions, it is only sparingly soluble. It is stated that at ordinary room temperature 94-95 per cent. spirit will dissolve 2 per cent. cholesterin; 90-92 per cent. spirit, one per cent.; 80-85 per cent. spirit, 0.5 per cent. Solubility is greater in isopropyl alcohol, and the best to use is commercial 98-100 per cent. pure Isopropyl alcohol 72-75 per cent. dissolves one per cent. of cholesterin; 64-65 per cent., half per cent. An addition of bile acids and bile acid salts, e.g., sodium cholate (fel tauri dep. sicc. pulv.) and addition of the fatty acids of alkalis, the solubility of cholesterin in spirit-water mixtures is increased. With addition of sodium cholate the slight characteristic smell is to be taken into account. Addition of alkali fatty acids are scarcely recommended, as the relatively large quantities which are necessary additions, make the hair and the scalp greasy. On the contrary, small additions of chemically pure tetrachlorohydrocarbons are useful, as these increase the solubility of cholesterin and prevent the separation of cholesterin plate crystals from the hair lotion, which may take place owing to change of temperature. Small quantities of lecithin can also be added. The content of pure cholesterin in a hair and scalp lotion generally amounts to about 0.5 per cent., but some authorities state that from 0.2 to 0.3 per cent. is sufficient.


Formulas

The following is a selection of formulas for cholesterin hair lotions:—

- (1) Spirit, 95 per cent., 89 parts; purified cholesterin, 0.5 part; pure glycerin, 28° Bé., 3 parts; distilled water, 6.5 parts; synthetic perfume, q.s.; colouring, yellow, q.s.
- (2) Spirit, 90 per cent., 75 parts; isopropyl alcohol, 99-100 per cent., 5 parts; carbon tetrachloride, chemically pure, 3 parts; pure glycerin, 28° Bé., 2.65 parts; cholesterin, 0.25 part; distilled water, 13 parts; lecithin from egg yolk, 0.1 part; eau de Cologne concentrate, 0.5 part; synthetic perfume, 0.5 part; colour, yellow or golden yellow, q.s.
- (3) Isopropyl alcohol, 99-100 per cent., 66 parts; pure glycerin, 28° Bé., 2.5 parts; cholesterin, 0.5 part; distilled water, 30 parts; perfume, one part; colour, q.s.
- (4) Spirit, 95 per cent., 80 parts; carbon tetrachloride, chemically pure, 3 parts; glycerin, 28° Bé., 2 parts; cholesterin, 0.3 part; distilled water, 13.6 parts; lecithin (brain or marrow), 0.1 part; eau de Cologne concentrate, 0.5 part; synthetic perfume, 0.5 part; colour, q.s.
- (5) Spirit, 90 per cent., 70 parts; isopropyl alcohol 99-100 per cent., 3 parts; carbon tetrachloride, one part; glycerin, 28° Bé., 2 parts; cholesterin, 0.1 part; distilled water, 22.9 parts; perfume, q.s.; colour, q.s.

All cholesterin hair lotions should be protected from air and not subjected to extremes of temperature as during cold weather these lotions tend to become turbid and cholesterin may be deposited.

A DIPLOMA has been awarded to Messrs. Bathe's Drug Stores, Fleet Street, Torquay, after a competition for the most attractively illuminated shop front.


THE CHEMIST AND DRUGGIST
RETAIL & DISPENSING
PRICE LIST
 based on definite costing principles
 ISSUED QUARTERLY NINTH YEAR OF PUBLICATION

For the second time this year the index of prices in drugs remains unchanged, it stands for October at September figure 126.3. The same remark applies to surgical dressings, 171.8, at which it has remained since May last. It would appear the figures are so low now that they could not well be less; in any case, it reflects the present condition of business. A few changes suitable for carrying forward into dispensing charges are shown below.

| Cost | | | Selling Price | | | |
|------|-----|-----------------------------|---------------|-------|-------|-------|
| | | | 16 oz. | 4 oz. | 1 oz. | 1 dr. |
| d. | per | | s. d. | s. d. | s. d. | s. d. |
| 84 | lb. | Lin. methyl salicylatis co. | — | 3 0 | 0 10 | 0 2 |
| 14 | oz. | Metol | — | — | 1 9 | 0 3 |
| 30 | oz. | Ol. crotonis | — | — | 4 4 | 0 8 |
| 240 | lb. | Ol. menthae pip. redest. . | — | 8 6 | 2 4 | 0 4 |
| 228 | lb. | Ol. menthae pip. exot. . | — | 8 2 | 2 3 | 0 4 |
| 18 | lb. | Syr. marrubii | 3 3 | 1 0 | 0 4 | — |
| 26 | lb. | Taraxaci radix Ang. incis. | 3 3 | 1 0 | 0 4 | — |
| 54 | lb. | Ung. menthol 5 per cent. | — | 1 10 | 0 7 | 0 1 |

Wills

MR. HOWELL JONES WALTERS, of The Pharmacy, Whitland, Carmarthen, chemist and druggist, left estate of the gross value of £3,147 2s., with net personalty £62 17s. 4d.

MR. WILFRED HUTHNANCE HOSKINGS, PH.C., of Riverside, West Mills, Newbury, Berks, who died on June 29 last, aged thirty-one years, left £954 17s. 8d. gross, with net personalty £915 12s. 2d.

MR. JAMES OLIVER SCUTT, of The Haven, Grimsness, South Ronaldshay, Orkney, retired chemist, formerly of Leytonstone and of Weston-super-Mare, who died on May 17 last, left personal estate in Great Britain valued at £1,516 15s. 2d.

MR. CHARLES BEAUFORT GOUGH, of 41 Seafeld Avenue, Great Crosby, Lancs., senior Liverpool representative of Lever Bros., Ltd., who died on July 5 last, left estate of the gross value of £2,119 3s. 7d., with net personalty £1,504 14s. 11d.

MR. SAMUEL DREW PICKERING, of Cestria, Highcliffe Gardens, Doncaster Road, Scunthorpe, and Frodingham, Lincs, chemist and druggist, who died on July 15 last, intestate, aged fifty-three years, left estate of the gross value of £1,133 4s. 8d., with net personalty £474 19s. 1d.

MR. FREDERICK BENTLEY SLEIGH, of Woodcote, Limes Road, Tettenhall, near Wolverhampton, Staffs, and of 14 Market Place, Willenhall, chemist and druggist, who died on February 5 last, aged sixty-one, left estate of the gross value of £7,979 7s. 8d., with net personalty £3,136 16s. 5d.

THE RT. HON. THOMAS ROBINSON FERENS, P.C., LL.D., of Holderness House, Holderness Road, Hull, chairman and managing director of Reckitt & Sons, Ltd., starch, etc., manufacturers, who died on May 9 last, left estate of the gross value of £292,843 17s., with net personalty £248,575 13s. The bulk of the estate was left to charities.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1930, p. 341.

(From "The Trade Marks Journal," October 8, 1930.)

- "ARGENTOPLAST"; for medicated bandages and dressings (3). By P. Beiersdorf & Co. A.G., Eidelstedterweg 38 to 40, Hamburg 30, Germany. 514,318.
- "EUPAVERIN"; for medicinal chemicals (3). By E. Merck, Frankfurterstrasse 250, Darmstadt, Germany. 515,055. (Associated.)
- "ACTIVOLIN"; for medicinal chemicals (3). By F. J. M. Bengué, 24 Fitzroy Street, London, W.1. 515,359.
- "NEUROSOMON"; for medicinal chemicals (3). By Chemische Fabrik Promonta G.m.b.H., Hammerlandstrasse 162 to 178, Hamburg 26, Germany. 15,714.
- "FORTAMIN"; for food substances (42). By Schering-Kahlbaum A.G., 170 and 171 Müllerstrasse, Berlin, N.39, Germany. 515,755.

(From "The Trade Marks Journal," October 15, 1930.)

- "FRADOR"; for all goods (2). By John Bell, Hills & Lucas, Ltd., 14 Tower Bridge Road, London, S.E.1. 513,698. (Associated.)
- "HERBARAS"; for medicinal chemicals (3). By F. E. Coe, 83 Staines Road, Twickenham, Middlesex. 506,050.
- "UZARA" for a medicinal preparation (3). By Uzara-G.m.b.H., am Futteracker, Melsungen, Hessen-Nassau, Germany. 513,378.
- "HYGEOIDS"; for medicated tablets for douches (3). By The Hygienic Stores, Ltd., 95 Charing Cross Road, London, W.C.2. 515,373.
- "POU"; for a medicine for cancer (3). By Nippon Shinyaku Kabushiki-Kaisha, 38 Mibushimomizo-cho, Kyoto, Japan. 513,460.
- "LEMBENOL"; for insect bite preventive (3). By Vinolia Co., Ltd., Union House, St. Martin's-le-Grand, London, E.C.1. 514,216. (Associated.)
- "EUSCLEROL"; for medicinal chemicals (3). By W. Mallard & Co., Ltd., 45 Mallard Street, Hackney Wick, London, E.9. 515,456.
- "STOMOPSON"; for medicinal chemicals (3) and for food substances (42) "FERRONOVIN"; for food substances (42). By Chemische Fabrik Promonta G.m.b.H., 166-172 Hammerlandstrasse, Hamburg 26, Germany. 515,603/747. (Associated.) 515,746. (Associated.)
- "SELTONIS"; for medicinal chemicals (3). By B. W. S. Palmer, 3 High Road, Willesden Green, London, N.W.10. 515,965.
- "HUMO"; for surgical apparatus, etc. (11). By J. W. Hughes, Harpers Yard, Ruskin Row, Tottenham, London, N.17. 515,865.
- "LEADER"; for all goods (40). By The Leyland & Birmingham Rubber Co., Ltd., Golden Hill Works, Leyland, Nr. Preston, Lancashire. 515,816. (Associated.)
- "LOU-A-CLAR"; for perfumery, etc. (48). By Daisie A. L. Clarke, 5 Bolton Road, St. John's Wood, London, N.W.8. 514,754.
- "EXVOTO"; for toilet hair preparations (48). By E. G. K. Weakley, 49 High Street, Oxford. 515,140.
- "BATHAKS" for bath salts (48) By Thompson & Capper Wholesale, Ltd., Manesty Buildings, College Lane, Liverpool. 515,396.
- "COLLIORD"; for all goods (48). By R. L. Goold, 20 Waterloo Street, Birmingham. 515,415.
- "OLANO" as rustic-work design; for perfumery, etc. (48). By B. Greenwood, "Addiscombe," Bradford Road, Stanningley, Leeds. 515,425.
- Fantastic Eastern device of woman seated; for perfumery, etc. (48). By Eugene, Ltd., 23 Grafton Street, New Bond Street, London, W.1. 515,952. (Associated.)

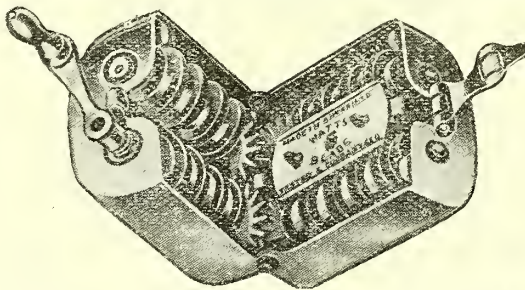
(From "The Trade Marks Journal," October 22, 1930.)

- "ZIMSTA"; for photographic chemicals (1). By F. H. Stacey, 28 Grove Road, North Finchley, London, N.12. 505,330.

Trade Notes

AN ARISTOCRAT AMONG SAFETY RAZORS.—John Watts (Sheffield & London), Ltd., 18 Soho Square, London, W.1, claim to be the originators of the safety razor, but, as is often the case, the idea was too revolutionary for the age in which it was introduced. Lack of appreciation by the user of the correct angle at which the instrument should be placed against the face was the chief factor which prevented the apparatus achieving the popularity it deserved. Such a difficulty and such a fate are unlikely to overtake the latest model which the company has placed on the market. In this case, both blade and holder are made of stainless steel, but the secret of its efficiency lies in the position of the blade in relation to its guard. The holder and blade are automatically fixed at the proper shaving angle for each edge. The difficulty of putting a real cutting edge on stainless steel is well known, but here again the company has succeeded, and to such an extent that the extra hardness of the steel makes it retain its keen edge for more shaves than is generally

Watts' blades at the factory. The razor is supplied packed in various styles from the leather case containing the instrument and a packet of blades to super



sets at 42s. A word must be said regarding the attractive "showcards" which are being used for displaying the razors. These are made of stainless steel with a mirror-like surface.

THE CYCLE AND MOTOR CYCLE SHOW is to be held at Olympia, London, W., from November 10 to 15.

CHIN-CHIN safety razor blades are manufactured by The Wafer Razor Co., Ltd., 262 Earsham Street, Sheffield.

BENGUE & Co., LTD., 24 Fitzroy Street, London, W.1, are making a bonus offer for a window or counter display of Dr. Bengue's Balsam.

TENZ MANUFACTURING Co., 18 Whitworth Street, Manchester, call attention elsewhere in this issue to their antiseptic deodorant tablets for the mouth and breath.

J. C. ENO, LTD., 160 Piccadilly, London, W.1, are again offering to supply free of charge calendars for chemists to distribute to their customers. Applications should be sent in before December 1.

ROBOLEINE.—Oppenheimer, Son & Co., Ltd., Handforth Laboratories, Clapham Road, London, S.W.9, announce that the window display bonus in connection with Roboleine will be discontinued on December 1.

THE DEMONSTRATION Co., 44 West Avenue, Wallington, Surrey, who are specialists in the demonstration form of advertising and house-to-house canvassing, will send particulars regarding their methods on application.

C. J. HEWLETT & SON, LTD., 35 Charlotte Street, London, E.C.2, inform us that their "Charlotte" hot water bottle cover is now supplied to take the hot water bottle fitted with an eyeletted tab, as well as the ordinary style.

KAY BROTHERS, LTD., Stockport, offer to supply, free of charge, copies of "Kay's Home Doctor and Almanack, 1931," overprinted with the chemist's name and address for distribution to their customers. Two slip labels should be sent with the applications.

PUBLICITY MATTER.—Lilywhite, Ltd., photographic printers, Lumb Mills, Triangle, Halifax, have sent us specimens of their photographic publicity material. These show that such advertising matter is of a distinctive nature, and merits the attention of manufacturers, particularly those connected with pharmaceutical specialities and toilet articles.

The twelfth annual display competition, organised by National Display Association, closes on January 5, 1931. Section 12 is the class reserved for chemists' goods, books, tobacco and confectionery, the prizes being given by the National Cash Register Co., Ltd. The competition is open only to members of the Association, and full particulars may be obtained either from headquarters, 7 Red Lion Square, London, W.C.1, or from a local secretary.



obtainable with the ordinary steel ones. With the aid of the special stropping apparatus the edge can be renovated when necessary, and, it is stated, in this way the blade will last almost indefinitely. Messrs. Watts supply two stropping devices, one automatic, the other for hand use. The former, the Spiro Sharpener puts new edges on dull blades with the correct "heel-toe" action of the barber. The blade is simply placed on the two pegs, the box closed, and the handle turned. The Spiro is a sound piece of engineering and should last a lifetime. The difficulty in stropping a razor blade (safety or "cut-throat") is maintaining the edge at the correct angle to the strop. With the Watts hand-stropping device (which comprises a handle for holding the double-edge type of blade and a guard to ensure the correct slope) the operation becomes simplicity itself, and it is interesting to note that this hand-stropping process is the final one used for the

Births

Notices for insertion in this column must be properly authenticated.

WILKINSON.—On November 1, the wife of E. M. Wilkinson, chemist and druggist, Hale, Altrincham, of a daughter.

Marriages

BASKERVILLE—CHESTER.—At St. Matthew's Church, Skegness, on October 16, Gordon Baskerville, chemist and druggist, to Grace Leonora Chester.

CLARKSON—BROWN.—At the Catholic Church, Richmond, Yorks, on October 27, Dennys Horsfield, second son of Mr. Newton Clarkson, chemist and druggist, Richmond, to Monica Brown.

COOKE—ALSTON.—At the Parish Church, St. Annes-on-Sea, on October 15, William Kershaw Cooke, chemist and druggist, to Catherine B. Alston.

LEWIS—HELSBY.—At Accrington, on October 16, James Edgar Lewis, chemist and druggist, to Bertha Helsby.

MITCHELL—HEADY.—At Sutton Court Wesleyan Church, Chiswick, London, W.4, on November 1, William Oliver Mitchell, chemist and druggist, to Margaret Annie Heady.

SOUTH—PICOT.—On October 21, Hubert Bricknell South, chemist and druggist, Jersey, to Mary Maud Picot.

Deaths

DOW.—At Rochester, Minn., U.S.A., on October 15, Mr. Herbert Henry Dow, founder, president and general manager of the Dow Chemical Co., Midland Mich., aged sixty-four. About forty years ago Mr. Dow discovered an electrolytic process of recovering bromine from saline brines, and as the result of the development of this process, and many which have grown out of it, organised a number of chemical companies. In 1925 his Alma Mater conferred on him the honorary degree of doctor of science in recognition of his achievements in practical chemistry, and in 1930 he was the recipient of the Perkin medal.

HEMMING.—At Beeston, Notts, on October 5, Mr. Francis Harry Hemming, chemist and druggist. Mr. Hemming qualified in 1889.

JACKSON.—At 460 Stretford Road, Manchester, on October 12, Mr. Henry Jackson, chemist and druggist, aged thirty-six.

LYON.—At his residence in Cambridge, on November 2, Colonel A. J. Lyon, aged seventy-five. Colonel Lyon practised for some years in Cambridge as a solicitor, and was appointed coroner for the borough in 1893. As a member of the Town Council, and subsequently as an alderman, he consistently opposed the unnecessary granting of licences for the sale of agricultural and horticultural poisons by unqualified traders; and for a considerable time, owing to his efforts and those of the late Alderman A. S. Campkin, chemist and druggist, no licences of this class were issued.

MERRELL.—On October 3, Mr. George R. Merrell, president and treasurer of the McKesson-Merrell St. Louis Drug Co. and a vice-president of McKesson & Robbins, Inc., aged sixty-one.

MORRELL.—At Richmond, Surrey, on November 4, Mrs. A. J. Morrell, mother of Mr. W. Morrell, chemist and druggist (Morrell & Howells, chemists).

MORRIS.—At Wolverhampton, recently, Mr. John Howard Morris, for many years representative of Reade Bros. & Co., Ltd., manufacturing chemists, Cleveland Road. Mr. Morris was associated with the company for fifty years, and was well known in the Bath and Bristol districts. He was a prominent freemason.

PALLISTER.—On October 22, suddenly, Mr. John Pallister, retired chemist, Ramsey, Isle of Man. Mr. Pallister went to the Isle of Man from Penrith, and conducted a pharmacy at Laxey, before going to Ramsey, where he was in business for about thirty years. He was a prominent freemason.

PURVIS.—At a Cambridge nursing home, on November 1, Alderman John Edward Purvis, M.A., F.I.C., University Lecturer on Chemistry and Physics in their Application to Hygiene and Preventive Medicine. Alderman Purvis was an expert on water analysis, and did useful work as a member of the Cambridge Corporation. He became Mayor of the borough in 1928; and his services as an examiner to the Pharmaceutical Society of Great Britain were recognised by his election as an honorary member in 1914.

RENDLE.—At Forton, Gosport, on October 27, Mr. Richard Hosking Rendle, chemist and druggist, aged eighty-six. Mr. Rendle was formerly in business at Devonport.

STREET.—At Neuchatel, France, on October 30, in an aeroplane accident, Mr. James Street, secretary of the G. W. Carnrick Co., Mount Pleasant Avenue, Newark, New Jersey, U.S.A., aged forty-two. Mr. Street was returning home after a visit to business centres in the Far East in the interests of his firm, and was flying from Paris to London when the accident occurred. His body is being sent to New York for burial.

WALKER.—On November 1, Dorothy, dearly beloved wife of Mr. William James Walker (J. C. Eno, Ltd.), 39 Chalsey Road, Brockley, London, S.E.4.

Business Changes

L. ROWLAND & CO., LTD., chemists, have opened a branch at St. Asaph.

TIMOTHY WHITES (1928), LTD., have opened a pharmacy at 29-31 Western Road, Bexhill-on-Sea.

MR. F. A. GOODWIN, Ph.C., 20 Ebrington Street, Plymouth, has withdrawn his business from the market.

MR. H. L. BLAKE, chemist and druggist, Gainsborough, has opened a branch pharmacy at 215 Ropery Road.

MR. J. SYMON, chemist and druggist, is opening a pharmacy at 760 Romford Road, Manor Park, London, E.12.

THE ACELTA CAPPING CO., LTD., will shortly remove their offices and works from Trafford Park to The Acelta Works, Derby Street, Manchester.

C. TOLKIEN & CO., LTD., manufacturers of malt extract and malt extract preparations, Remogen Works, Silsden, Yorkshire, are now able to give prompt delivery of their products from their new London address: 24 Margery Park Road, E.7. Telephone: Maryland 4585.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

| | |
|-----------------------------------|--|
| L/411. Archanium rheumatic remedy | H/2810. Hallanson's woven maternity belt |
| E/411. Capstan razor blades | W/2710. Iodopack |
| C/411. Dr. Baxter's S.O.S. Jelly | E/411. Venimal or Verimal |
| | E/411. Vitras tablets |

Observations and Reflections

By Xrayser III

At Last

We have been furnished with a survey of the draft Pharmacy and Poisons Bill which should enable any chemist and druggist to obtain a clear idea of its provisions and of the not inconsiderable extent to which it affects all of us (*C. & D.*, November 1, p. 545). You have usefully supplemented this synopsis of what the draft Bill contains by your statement of matters of prime importance which also require attention and should have been included in the measure (p. 550). All the necessary material is now available for giving full consideration to the problem confronting us, and discussions thereon at meetings of chemists can with advantage be restricted to really salient points. Most important, in my opinion, is the necessity of ensuring, if possible, that there shall be a clear statutory recognition of the professional functions of the pharmacist and that the practice of pharmacy shall not be regarded as being in any way dependent upon authorisation to sell poisons. I have been hoping to see something in the nature of an official asseveration of the fundamental importance of this principle, which is inferentially stressed in Mr. Humphrey's practical suggestion that the use of poisons by pharmacists in compounding and dispensing medicines should be outside the purview of the proposed Poisons Board. This, of course, is as it should be.

Over-Caution

seemed to characterise the remarks of president Melhuish on the draft Bill, when he explained a memorandum of which particulars are not published (*C. & D.*, November 1, p. 540). One would like to know what are the proposals that the Council desires to consider from "the broad point of view," also what that point of view may be. Apparently there is to be a conference at which the Council is to listen patiently to arguments submitted by other bodies, after which delegates from all parts of the country are to be consulted before the members of the Council make up their minds what to do. This policy is designed, according to what is reported, to lead up to the shaping of an agreed Bill, sponsored by an agreed body, after which, presumably, all will be well. But one can foresee quite a different conclusion to a chain of events which may not happen to be linked together just as planned. Meanwhile, the obvious inference from Mr. Melhuish's excessively guarded statement is that the Pharmaceutical Society's Council is not yet agreed upon a policy regarding the draft Bill, and that there is no immediate prospect of that body giving us a lead, much as we may desire one. With such timidity prevailing, it seems to me that it may yet become necessary to constitute an independent Pharmacy Defence Committee, for the purpose of defending our ancient rights.

Deficiencies

of the draft Bill are in pressing need of official consideration, and it is about time we heard what steps, if any, are likely to be taken in the direction of proposing amendments to make good such deficiencies. But it may be that the idea of an agreed Bill cannot be realised if such points as are enumerated in your editorial articles are pressed by those supposed to be engaged in looking after our interests. If so, I would suggest that the sooner we get away from the idea of an agreed Bill the better it will be for pharmacy in the long run. We have waited so long for improvement to be effected in our position that it cannot hurt us materially to wait longer, and I should favour a struggle to maintain the existing position unchanged rather than agree to let the draft Bill be introduced

and passed without very serious amendment in various directions. For the time being, however, we remain in ignorance respecting what is being done or proposed. A policy of hush-hush has been, and is being, steadily pursued, and it remains to be seen whether future disclosure of the march of events will reveal that anything of an inspiring nature was ever planned on our behalf. Fortunately you have now rendered it possible for anyone interested to secure a ready grasp of what the draft Bill contains and what it ought to contain, but does not. With this information available, it should not be difficult for chemists and druggists to elicit facts of interest by asking pertinent questions when attending meetings at which members of the Council are present.

If One Wishes

to find specimens of the equivoque the best hunting will prove to be in the field of poetry. When the poet wrote "tradition wears a snowy beard, romance is always young," he doubtless intended us to apprehend a contrast of some kind; but there are some of us who see the romance in the childhood of the world rather than in the children of men, in the beginnings of things and of ideas rather than in the half-ripe fruitions reached in these present times. No more sinister feature is to be found in modern life than syphilis and its attendant train of physical and mental evils. Its origin and its introduction into Europe are subjects which have been discussed at great length for three hundred years, and much information has been accumulated therewith, from all of which it appears that it has been recognised under a number of different names, and that only during the last century has it universally borne its present name. The origin of this was mentioned in these columns about four years ago (*C. & D.*, 1926, II, 521). I see that Dr. D. W. Montgomery, of San Francisco, has recently given an account of Frascatorius, who is recognised as the originator of the name.

Frascatorius

was the kind of person to endow almost any kind of subject, no matter how repulsive and inimical, with an air of romance. He was the inventor of the famous diascordium, a sudorific of great value depending upon opium for its efficacy the presence of which is altogether concealed by its delightfully romantic name. The genius of Hieronymus Frascatorius was of the poetic order, although he is said to have been "skilled not only in belles-lettres, but in all arts and sciences. There was an appreciation of the incongruous in the mentality of this author, revealing him as the product of his generation (he was born in 1484 in Verona, and died in 1553). To this we must ascribe the genesis of his poem: "Syphillides, sive Morbi Gallici." In the course of this work he regards the origin of this dire complaint in the West to an outbreak of spleen on the part of a local sun-god against a swineherd named Syphilis, because the latter had not offered his sacrifices to the said sun-god, but to a local king. By degrees the name of the afflicted swineherd has displaced the other various names for the disease. There have been those who think that the talents of Frascatorius might have been better employed in seeking means to cure the sickness rather than in concocting a romantic story about its origin, notwithstanding that the poem has won the praises of the best critics of Latin poetry. Whence did Frascatorius find the inspiration for this name? An appropriate source for the name of a man in Arcadian days following such a calling would be *σῦς* (hog) and *φίλος* (friend); other suggestions that have been made are *σύν* (together) and *φάτω* (to love), and *σέφω* (shameful). The first is the most apposite to the romance of Frascatorius.



John Bell, Hills & Lucas Ltd.

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Editorial Articles

Government Chemist's Report

THE chemical problems arising in connection with the work of various Government departments are dealt with by the Government chemist, who, in his annual report, summarises the activities of his laboratory during the year. The report for the year ended March 31, 1930, which has recently been issued (Stationery Office, 9d.), contains some useful information. From the report it appears that 545,422 samples were examined, an increase of 46,133 over the preceding year. On behalf of the Ministry of Agriculture and Fisheries, thirty-two samples of malt extract and malt extract with cod-liver oil were examined in connection with the Agricultural Produce (Grading and Marking) Malt Flour and Malt Extract Regulations, 1929. A sample of soap alleged to be made wholly from waste potatoes was examined and found to consist of ordinary soap loaded with sodium carbonate and starch, presumably derived from potatoes. The section on the work carried out on behalf of the Board of Customs and Excise is the largest in the report, occupying over nine pages. Under the heading "Dangerous Drugs Acts" the report states that sixty-eight samples were received; of these, two samples of ampoules and one of opium were found to contravene the provisions of the Acts. It is interesting to note that a new spirit hydrometer, capable of indicating the highest alcoholic strengths at all temperatures likely to be experienced in this country, has been devised and, with the appropriate tables, submitted to the Commissioners of Customs and Excise; the reason given for this step is "the increasing production of alcohol of high strength." With reference to "medicinal prepara-

tions," the report states that samples of medicine or articles offered for sale as medicine are examined in connection with questions of liability to patent-medicine stamp duty, and include powders, herbs, liniments, oils and other remedies. Other samples of medicinal articles are analysed in order to establish their identity or their medicinal character, and, in some cases, their claim to be rated for spirit duty as medicinal preparations. The total number of samples was 176, exclusive of a number of medicinal preparations examined for other Government departments. In order to check exporters' claims for drawback on spirit, 18,793 samples of medicinal spirits, tinctures, perfumes, hair washes, dentifrices, liniments, extracts, infusions, etc., were examined. The declared strength was over-stated in 220 cases; methyl alcohol was present in nine cases (precluding right to drawback on exportation); in three other cases drawback had been improperly claimed. 16,095 samples were examined for alcohol, ether, chloroform, choral hydrate, and certain ethyl derivatives; 8,148 of these samples were also examined for hydrocarbon oils, sugar or chemicals liable to Key Industry Duty. Five samples of methyl alcohol in seventy examined were found liable to duty on the ground of potability: 211 samples of imported fusel oil (a by-product in the manufacture of ethyl alcohol) were found to contain upwards of 15 per cent. proof spirit and were thus liable to duty. As an alternative to payment of duty, however, the importers were allowed to treat the fusel oil so as to reduce the proportion of proof spirit to the limit of 15 per cent. Under the heading "Miscellaneous Samples connected with Tobacco Duty," the report states that two samples of herbal smoking mixture were examined to determine whether they contained tobacco or were prepared so as to resemble it; these were found to be free from tobacco. Various substances, such as sulphur, asafetida, sago flour, tar oil, carbolic and cresylic acids, soda ash, borax, hellebore, cayenne, lampblack, saltpetre, anthracene oil and bone oil are used in denaturing offal tobacco which is to be employed for the manufacture of sheep dips or horticultural preparations. These substances are mixed with the offal according to approved formulas; 125 samples of these materials were approved. On behalf of the Ministry of Health many samples were examined (mostly foodstuffs); two samples of tinned vegetables contained copper colouring matter; hydrogen peroxide was found in four samples; two samples consisting partly of cocoa were found to contain boric acid. Foods and medicines suspected to contain poison; an article sold for smoking purposes containing hashish, samples taken during raids on smoking dens (raw opium, prepared opium, etc.) were among the samples examined on behalf of the Home Office. A preparation of cocaine sold in contravention of the Poisons and Pharmacy Acts and the Dangerous Drugs Acts, and four samples of suspected abortifacients were examined for the Department of the Director of Public Prosecutions. On behalf of the Board of Trade, 221 samples of raw juice (lime and lemon juice for the mercantile marine) were submitted; all were approved. The work of the Government Laboratory in the recovery of radium from decayed luminous paint has been continued, and it is stated that 200 milligrams of high-grade radium salt has been reconditioned and retubed for research purposes.

The Position of Mercury

IN a general survey of the position in mercury in our issue of September 6 (p. 316) we referred to the steadily widening disparity in values between New York and London, which has been a feature of the market. Since then the New York price has declined much further, from \$118 per bottle to about \$110½ to \$111. Compared with the end of June last, when the New York price stood at \$120, the amount of depreciation is no less than \$19½, or the equivalent of, say, £2 per bottle. On the London market over that period, only a slight adjustment has been made in the spot terms for controlled or even "outside" metal to £22 per bottle net and a fraction less according to quantity, while the f.o.b. quotation of the Europeo Mercurio has been maintained ever since they commenced operations at £21 15s. per bottle. It is clear, therefore, that the attitude of the Combine has not been in the least affected by the material reduction made in the American price for domestic use, or in the arrivals which have taken place from the United States to London. At the same time, the reduction indicates that there is more than enough mercury available in America from domestic producers to meet current demand, and it is not improbable that consumption has been restricted over a considerable period under the severe industrial depression. Obviously, in the circumstances, American imports from Europe have fallen off to an appreciable extent in the course of this year, but it is highly premature to assume that any notable change is contemplated by the Combine from its current terms, whatever may be its position in the matter of supply and demand; on this point, however, no trustworthy information is obtainable or allowed to leak out. There has been a certain amount of gossip in trade circles recently as to the possibility of a cut in the official price, chiefly because of the recent slowing down in the demand and the poorer trade conditions, but mercury is not the only metal having the backing of a monopoly, which has not been allowed to collapse under the world trade depression. Similar gossip was indulged in by the "Berliner Tageblatt" last week, which even made an announcement of a cut in the price of nickel by £20 a ton, but this was quickly denied by the British interests who control the production of this metal, the price of which has been stereotyped for many years. To what extent the world consumption of mercury may have been temporarily weakened by the acute general trade depression, it is difficult to say, and those in touch with the movement of European supplies are not disposed to express any opinion on this point. The outlet has probably lost ground, especially where manufacturing operations have been handicapped either by adverse trade conditions or the relatively high price ruling; on the other hand, there has been the development of new uses for the metal, for which considerable quantities have been absorbed within the past year or two both in the United States and on this side. So far as can be gathered, quantities running perhaps into to as much as 8,000 bottles have been absorbed in this country by the larger manufacturing chemical interests within the past year or so for new purposes. It may be pointed out that imports into Great Britain have been made at a notably increased rate since the end of July as indicated by the official returns of imports which with comparisons are as follows for the nine months to the end of September:—

| Bottles | Sept., 1929 | Sept., 1930 | Jan.-Sept., 1929 | Jan.-Sept., 1930 |
|---------------------|-------------|-------------|------------------|------------------|
| U.K. imports .. | 1,778 | 2,530 | 3,814 | 11,716 |
| U.K. re-exports .. | 189 | 107 | 3,783 | 2,501 |
| U.K. net imports .. | 1,589 | 2,423 | 31 | 9,215 |

The receipts for September were comparatively heavy, amounting to 2,530 bottles, making an aggregate of 4,080 bottles for the two months, a goodly portion of which was probably absorbed for delivery against an important special contract. The total for the nine months represents 11,716 bottles, or an increase of not far short of 8,000 bottles compared with the same period last year, when the net imports were practically nil, as the re-exports were exceptionally heavy. This anomaly is to be ascribed to the fact that large quantities of metal held in secondhands, or partly carried from 1928, were liquidated within the first nine months of last year. It will be seen that the net imports this year to the end of September amount of 9,215 bottles, but this is presumably not a great deal in excess of current trade needs, allowing for the extra requirements referred against a certain loss in the outlet for the usual purposes. There is little doubt that users' reserves in various directions have been allowed to fall very low under the poor state of trade and the belief that their hand-to-mouth policy may be safely adhered to for an indefinite period. There is certainly no fear of an advance in the price with ample stocks available, while operations at the Spanish mines were recently resumed as usual over the autumn.

Personalities

MR. DANIEL T. EVANS, J.P., chemist and druggist, Margate, has been appointed a visitor under the Lunacy and Mental Deficiency Acts.

MR. JAMES A. HARE, Ph.C., Hexham, contributed an illustrated account of "The Passion Play at Oberammergau" to a recent issue of the "Hexham Courant."

ALDERMAN PERCY KNOTT, chemist and druggist, Bolton, has been elected a justice of the peace for the borough. It may be remembered that Mrs. Knott has been a magistrate for some years.

NOTICE is given in "The London Gazette" that David Moses Cohen, 2 Redmans Road, Stepney, London, E., pharmacist, has assumed the name of David Moses Owen by deed poll.

MR. W. H. STONES, chemist and druggist, Bury St. Edmunds, has been elected chairman of the West Suffolk Insurance Committee. Mr. Stones is also chairman of the Medical Benefit Subcommittee.

MR. C. B. P. MILBURN, Ph.C., formerly a member of the Pharmaceutical Society's Board of Examiners for Scotland, has left Glasgow in order to join the staff of Brook, Parker & Co., Ltd., manufacturing chemists, Bradford.

At the recent Board of Trade Examinations, held at South Shields, Mr. Charles M. Durno, son of Mr. Duncan M. Durno, chemist and druggist, Westcliff-on-Sea, passed his examination as First Officer in the Mercantile Marine.

MR. R. GARNETT PICKLES, Ph.C., Finchley, London, N.3, won the Stanley Cup in a competition played at Hendon Golf Course on October 23. Mr. Pickles, who is Worshipful Master of the Stanley Lodge this year, is a director of the new Finchley Golf Club.

MR. N. V. EVERTON, who was London manager for the lamp sales department of the Metropolitan-Vickers Electrical Company, Ltd., has been appointed sales manager for that department, the address of which is Bush House (West Wing), Aldwych, W.C.2.

At the annual Masonic Festival of the Province of Guernsey and Alderney, held on Oct. 16, Wor. Bro. C. Stonelake, chemist and druggist, Guernsey, was

elected Prov. Grand Treasurer. Mr. Stonelake has recently returned from the United States and Canada, which he visited as a delegate of the Rotary Convention tour.

THE following chemists were among the successful candidates at the recent municipal elections:—Mr. D. J. Bailey, Blackpool; Mr. L. Chambers, Halifax; Mr. R. G. Edwards, Manchester; Mr. W. H. Grimshaw, and Mr. B. Holden, Blackburn; Mr. L. A. Kirkland, New Romney; Mr. G. W. Hales and Mr. C. Smalley, Ipswich; Mr. L. E. Thomas, Wallasey; Mr. R. W. Wardman, Sudbury; Mr. W. G. Wells, Maidstone.

COUNCILLOR J. S. PRIOR, Ph.C., who has accepted the mayoralty of Stamford, was born in Manchester, served his apprenticeship in Bedford, and, after qualifying, became an assistant at Eastbourne, London, Cambridge and Nottingham, before commencing business on his own account in Stamford in 1897. He disposed of his interest in the pharmacy last year. He was elected a member of the town council nine years ago, and this year has been returned unopposed. Mr. Prior has held the presidency of the Peterborough and District Chemists' Association, of the Kesteven Chemists' Association, and of the East Anglian Federation. He is also a past-president of the local chamber of commerce.

British Pharmaceutical Conference

We have received the following communication from the general secretaries of the British Pharmaceutical Conference, 17 Bloomsbury Square, London, W.C.1:—

We desire to remind all members that we shall be pleased to receive original communications on research work done in any of the subjects allied to pharmacy for presentation to the meeting of the Conference at Manchester next year. Papers from pharmacists and others on subjects of practical pharmaceutical interest would be much appreciated. The manuscript of papers intended for communication to the Manchester meeting should reach us not later than June 1, 1931.

It is hoped that all members of the Conference who will have papers ready by that time will avail themselves of the facilities for discussion afforded by the meetings of the Science Section and of the publicity for their communications afforded by the "Quarterly Journal of Pharmacy and Pharmacology." We earnestly appeal to all those who are engaged in research problems of a pharmaceutical nature to submit papers for communication to the Science Section of the Conference and thereby to maintain and possibly enhance the spirit of scientific research for the common good of all who practise pharmacy.

Westminster Wisdom

Notes on Parliamentary Matters.

ARSENIC IN SWEETS

MR. REMER asked the Minister of Health if his attention had been called to the disquietude caused to the public mind by the discovery of arsenic contained in sweets sold in the borough of Congleton and the Potteries area; and the steps he is taking to prevent the possibility of a repetition of excessive arsenic being sold in this way.

In a written answer, given on November 4, Miss Lawrence stated that the Minister of Health understands that the town council of Stoke-on-Trent have decided to take legal proceedings against the persons believed to be responsible, and that he proposes to await the result of those proceedings before considering whether it is necessary to strengthen the law in any way in order to prevent the repetition of such an occurrence.

Pharmacopœia Revision

Comments on the Report of the Pharmacy Subcommittee

We have received several important comments on the Report of the Pharmacy Subcommittee of the Pharmacopœia Commission in response to our request. A second instalment of these is now published.

(Continued from the C. & D., November 1, p. 554.)

By H. Humphreys Jones, F.I.C., Ph.C., F.C.S.

ACIDUM CARBOLICUM LIQUIDUM.—It is highly desirable to have a preparation that will remain in the liquid state under normal conditions. The present strength, taking the s.g. to be 1.068, is 50 grains in 59½ minims (or 60 minims practically). The new will contain 50 gr. in 65 min., taking the s.g. to be 1.057. The present strength is therefore more convenient. 50 gr. in 65 min. can scarcely be regarded as approximately 50 gr. in 1 fl. drachm.

DILUTE ACIDS.—There is no reference in the report to the 10-per-cent. dilute acids. From this it is evident that no change is contemplated, and that it is the Subcommittee's view that apparent uniformity in strength is preferable to real uniformity. It seems to me that it would be better to have them of equal neutralising power. Also, if the acids are to remain per cent. w/w, it should be directed that a definite weight and not a definite volume be taken for estimations.

CONFECTIONS.—Is there any good purpose in retaining confectio piperis?

CONFECTION OF SENNA.—Too much variation allowed, in my opinion—not less than 1,000 grams and not more than 1,100 grams.

EXTRACTS.—For making extracts where all the solvent is removed, the use of industrial methylated spirit should be permitted by the authorities.

EXTRACTUM ALOES.—Evaporation under reduced pressure in this and in other extracts is necessary in order to ensure minimum medicinal activity. Unfortunately, it means the death-knell of the preparation of extracts by most practising pharmacists.

REPERCOLATION.—No one will shed a tear over the discontinuance of this process. Brought in in order to enable the pharmacist to obtain a reliable preparation through not having to use heat, it was rarely put into practice because of its wasteful and tedious character. The wholesaler had no need to use it, as simple percolation and evaporation under reduced pressure guaranteed equal results.

EXTRACTUM CINCHONÆ.—This will be a great convenience for the preparation of fluid extracts and tinctures, and will be useful as a pill ingredient.

EXTRACTUM COLCHICI.—The dropping of this will mean the disappearance (excepting extractum taraxaci) of the old-fashioned extract—the inspissated juice. Very little of this extract has been prescribed during recent years, and this may be due to unreliability of action. Its standardisation is a wise move. No doubt the activity in the main is due to the alkaloids, but I wonder if the "extractive material" should not get more of the credit. Why are extracts, such as belladonna (green) and hyoscyamus (green) still prescribed to a considerable extent? If the activity of drugs is due to alkaloids and other definite substances, why prepare galenical and other preparations at all?

GLYCERINS.—The weighing of glycerin is more economical, convenient and accurate.

GLYCERINUM ACIDI BORICI.—The quantities of glycerin and boric acid have been brought up from the approximate to the real molecular quantities. Both wise and logical.

INFUSIONS.—On the score of pure pharmacy—after all, an infusion should be an infusion—the inclusion of fresh preparations will be expected and justified by the rank and file. But from the practical everyday point of view it is doubtful if many medical men will prescribe them, because they know that the diluted

variety is generally speaking more uniform and reliable in action. If there is only a small demand for fresh infusions, it is conceivable that the drugs used may be stale and inactive. With regard to the absence of an instruction to supply fresh infusions, the pharmacist can please himself which to use; this is undoubtedly a wise move, as it will enable the pharmacist to explain to the general public the reason for the difference between mixtures and other mixtures dispensed from the same prescription. This has been a vexed question ever since concentrated infusions came into use; and the pharmacist on many occasions, in his effort to justify his own work, had apparently to throw doubt on the ability and care of his *confrères*. In the future the client can be referred to chapter and verse, thereby counting for righteousness in both cases.

LOZENGES.—The suggested omission of the simple and rose bases can be easily understood, because they are practically identical with the tolu basis. But does not the fruit basis possess very distinct advantages over the other? I understand it is more effective with a certain type of medicament. Will not the introduction of carmine into the carbolic lozenge make them look rather enticing to children?

OINTMENTS.—Has it been proved that the suggested simple basis possesses the necessary quality of being absorbed by the skin? Pharmaceutically, the basis seems ideal; it will keep indefinitely, it is not likely to react with ordinary medicaments, it is smooth, and a reasonable amount of fluid can be absorbed. When unguentum chrysarobin was made with the lard basis, the effect was decided and satisfactory. With soft paraffin it is useless. Very likely the lanolin in the new basis will rectify that. I mention this as an example.

SYRUPUS FERRI IODIDI.—From the formula the amount of iodine will give a quantity of ferrous iodide that will yield 1.415 grm. of 5 per cent. w/w syrup. Therefore the s.g. will be 1.415.

SYRUPUS TOLUTANUS.—The only justification for retaining this syrup is its popularity with the doctors. Between the loss of volatile material during the heating and the material filtered off after cooling, the syrup may be said to be famous for what it does not contain!

TINCTURA HYOSCYAMI.—Is the dose to remain the same? The average strength of the present tincture is about 0.007 per cent.

TINCTURA AURANTII.—In these days of quick transit it seems to me that bitter oranges are as available to other parts of the Empire as they are to Britain. Such an instruction may be taken to mean that the sweet orange peel may be used everywhere when the marmalade season is not on.

TINCTURA IPECACUANHÆ.—The wines have been gradually dying out pharmaceutically for the last 100 years, and the probability is that the general public will be asking for ipecacuanha and some other indicated wines for the next 100 years. Would it not be wiser to retain a few wines, such as orange, quinine, ferri et ammon. cit. and ipecac., and make the latter by the formula for the tincture, thereby eliminating certain difficulties as the result of using sherry? The objection to that would be that it would not any longer be a wine. But it would be as much of a wine as acetum scillæ is a vinegar.

TINCTURA OPII.—Boiling distilled water should be ordered. This has always been the case in practice, and probably was intended. The temperature is soon down to 90°, say, in an ordinary mortar.

WATERS.—(b) I am certain this will be unsatisfactory because "shakes" and "shakes" differ so much in intensity, and consequently variable amounts of oil will be dissolved. A lady, for example (if the temper is normal!) has not the grip and the strength that the average man has. Besides, any person can shake the contents of an 8-oz. bottle more efficiently than in the case of a quart bottle. The use of calcium phosphate for breaking up the oil particles should be discontinued. Such waters do not keep well. (c) From the everyday point of view, the concentrated water, 1 in 40, is the practical proposition. A water like aqua anethi destillata is not likely to be of general use. The average pharmacist will not encourage its use, because he is unlikely to prepare it himself and it is too bulky to store.

By. H. M. Tranmer

EXTRACT OF MALT AND COD-LIVER OIL.—The general trade custom is to supply a 15-per-cent. solution; and it will lead to a good deal of confusion and friction if a 10-per-cent. solution becomes official. It is to be mixed thoroughly with the aid of gentle heat. In this and every case where temperature higher than normal is to be employed an approximate degree should be stated.

EXTRACTUM SENNAE LIQUIDUM.—Chloroform is hardly the best or most attractive carminative, and I would suggest the addition of coriander and cardamon.

LINIMENTUM CAMPHORÆ.—I think it will be generally agreed that cottonseed oil is the very worst possible substitute for olive oil. It is nasty stuff, even if it were suitable in every way; but in addition it becomes solid at a comparatively high temperature, and it will not be possible to pour it from one bottle to another in the winter months without warming it and thereby evaporating the camphor; in addition it will solidify in the customer's container and be the cause of endless complaints. After all, the composition of any preparation of the B.P. ought not to be influenced by consideration of petty economies.

UNGUENTUM HYDRARGYRI COMPOSITUM.—The directions for preparing this ointment should be altered entirely and should be as follows:—Rub together in a mortar the mercury, camphor and olive oil, and then incorporate the melted fat. The result is a deep cream-coloured ointment, with the mercury in the finest possible state of subdivision.

"TINCTURE OF IODINE" should be given as a synonym for tinctura iodi mitis.

TINCTURA CARDAMOMI COMPOSITA.—The lack of uniformity in this preparation in the past has been due to the extreme range in varieties of the cochineal. Some steps should be taken to ensure that this difficulty is obviated in the future.

By A. W. Lupton, Ph.C.

It was with considerable interest that I read through the report of the Pharmacy Subcommittee, and I would congratulate the members on the excellent way in which they have dealt with the very intricate problems with which they were confronted, and on the method adopted for stating the limits of error in alkaloidal and chemical solutions. There are a few suggestions I would like to make, of small moment in themselves possibly, yet which would make for a better whole.

EXTRACTUM COLCHICI LIQUIDUM.—I would suggest that the marc after treatment with petroleum spirit be dried under reduced pressure, as is suggested for the evaporation of **EXTRACTUM ALOES**.

EXTRACTUM GLYCYRRHIZÆ and **EXTRACTUM GLYCYRRHIZÆ LIQUIDUM.**—The washed unpeeled root.

EXTRACTUM MALTI.—A test for the diastatic value should be outlined in addition to giving the figures.

EXTRACTUM NUCIS VOMICÆ LIQUIDUM.—Is it to be understood that the percolate obtained by the "Process of Percolation" is to be evaporated and the alcohol recovered before defatting?

GLYCERINA.—Expressing the quantity by weight is an excellent step.

GLYCERINUM ACIDI BORICI.—Should read "Add sufficient warmed glycerin to produce the required weight." This obviates the warming of the finished product and

possibly introducing an error due to evaporation after making up to weight. Also cold glycerin causes a crystalline scum to be thrown out.

GLYCERINUM ALUMINIS.—Potash alum, in crystals, should be specified.

INFUSA.—"This Concentrated Infusion when diluted—but neither in flavour nor in colour to Fresh Infusion." The standardisation of concentrated infusions, although they are in themselves a necessary evil, is a matter eminently desirable.

SENNA PODS.—The use of leaves and not pods in the preparation of the infusion has been a point I have deprecated for several years, the former being far less satisfactory than the latter in action. Yet, even in the pods themselves, the actions of the two varieties differ considerably, the one being far less severe than the other. At least, I have found it to be so.

TROCHISCI.—A fruit basis for krameria and cocaine lozenges might be retained, so that they may readily be distinguished from other less dangerous lozenges.

PULVIS IPECACUANHÆ COMPOSITUS.—The exchange of lactose for the dense potassium sulphate is a good one, and should prevent the separation of the ingredients over a long period.

LIQUOR GLYCERYLIS TRINITRATIS.—Cannot glyceryl be regarded like amyl, as an indeclinable substantive, and the name be liquor glyceryl trinitratis?

SYRUPUS FERRI PHOSPHATIS COMPOSITUS.—No time limit is given for the decocting of the cochineal in the distilled water, although from the figures given it has obviously evaporated to some extent. The use of glycerin of cochineal might serve to obviate this step in the process, and a note be included in the Appendix to the effect that it is the glycerin of the British Pharmaceutical Codex, 1923, which is intended.

AQUE.—Under 2 (b) calcium phosphate should be omitted, imparting, as it does, a distinctly acid reaction to the water, which is evidenced when dispensing certain tinctures with an aromatic water so prepared.

TINCTURA CARDAMOMI COMPOSITA.—The inclusion of a footnote to the effect that it should only be dispensed with distilled water. Mixtures made with this tincture and natural water differ considerably according to the locality.

In conclusion, I consider that the use of standard strong solutions for the preparation of the weak, and liquid extracts for the tinctures, is one of the outstanding excellent points in the report.

By George Lunan, Ph.C.

GLYCERINUM ACIDI BORICI.—The alteration should make manipulation much easier.

In the making of effervescent preparations, a temperature of from 85 to 95 degrees is quite sufficient to cause segregation of the granule into a plastic mass suitable for granulation. The alteration in the proportions of tartaric and citric acids is good.

The reduction in strength of **GLYCERINUM PHENOLIS** is an improvement as well as the name of the preparation.

The introduction of concentrated infusions is welcome; the stricture applying to fresh infusion of **DIGITALIS** should also apply to **BUCHU**.

The introduction of **MISTURA MAGNESII HYDROXIDI** and **CATAPLASMA KAOLINI** are very sensible, but the introduction of **LIQUOR AMMONII ACETATIS CONCENTRATUS** is a retrograde step.

I do not think the introduction of magnesium carbonate in place of the oxide in **GREGORY'S POWDER** will be welcomed in Scotland.

TINCTURA IPECACUANHÆ should be an improvement on the wine as far as keeping properties go, but it will take time to accustom the public to this change.

(To be continued.)

WELLCOME HISTORICAL MEDICAL MUSEUM.—Specimens of bouquets carried at the election of a Lord Mayor of London and at the opening of the Sessions at the Central Criminal Court have been acquired by the Wellcome Historical Medical Museum. As is well known, the practice of using such nosegays originated in the idea of warding off infectious diseases.

Pharmacopœia Commission

Report of the Pharmacy Subcommittee

The Pharmacopœia Commission have received the following report from the Pharmacy Subcommittee upon certain aspects of the work done since the formation of the Subcommittee in September 1929. It is the desire of the Commission and of the Pharmacy Subcommittee that the report should receive the widest possible circulation in order to secure criticisms of the statements made and suggestions for improvement of the proposed formulæ. The Commission invite such criticisms and suggestions from medical practitioners, pharmacists and others interested. Careful consideration will be given to all opinions evoked by this report.

(Concluded from the C. & D., November 1, p. 556.)

Suppositories

The special formulæ, with the exception of the formula for Glycerin Suppositories, should be deleted. A general method for preparing suppositories should be described, the dosage of active ingredient being left to the physician or surgeon when writing individual prescriptions. No change in the formula of Glycerin Suppositories is recommended.

Syrups

SYRUPUS FERRI IODIDI

The selection of a reducing agent to be used as a preventive of oxidation in this syrup has been the subject of much consideration and experiment. Hypophosphorous acid is recommended for this purpose. The following formula has been worked out with a view to providing in the first place a concentrated solution which will simply require dilution with syrup in order to make a syrup of ferrous iodide containing 5 per cent. w/w of ferrous iodide.

| | | | |
|------------------------------|-----|-----|-----------------------|
| Iron, in wire | ... | ... | 19 gm. |
| Iodine | ... | ... | 58 gm. |
| Dilute hypophosphorous acid | ... | ... | 10 millilitres |
| Distilled water | ... | ... | a sufficient quantity |
| Syrup, sufficient to produce | ... | ... | 1000 millilitres |

Add the iron and the iodine to 90 millilitres of distilled water in a flask; shake occasionally, cooling if necessary. When the reaction is completed, heat on a water-bath for five minutes, and, while still hot, filter into the dilute hypophosphorous acid. Rinse the flask and wash the filter paper with sufficient distilled water, heated to boiling, to make the volume of the filtrate 125 millilitres. Add a sufficient quantity of syrup to produce the required volume and mix thoroughly.

Dilute hypophosphorous acid of 10 per cent. strength should be described in the Pharmacopœia.

SYRUPUS FERRI PHOSPHATIS COMPOSITUS

A number of formulæ for this preparation have been considered, and that given below has been selected as containing a suitable quantity of iron phosphate associated with the minimum quantity of free acid.

"Parrish's Syrup" should be made a synonym.

Compound Syrup of Ferrous Phosphate contains in 100 millilitres the equivalent of 0.9 gm. \pm 0.09 of anhydrous ferrous phosphate and the equivalent of 0.9 gm. \pm 0.09 of tricalcium phosphate.

| | | | |
|--|-----|-----|--------------------|
| Iron, in wire | ... | ... | 4.3 gm. |
| Phosphoric acid (sp. gr. 1.75) | ... | ... | 28.0 millilitres |
| Calcium carbonate | ... | ... | 8.9 gm. |
| Potassium bicarbonate | ... | ... | 1.0 gm. |
| Sodium phosphate | ... | ... | 1.0 gm. |
| Cochineal | ... | ... | 3.4 gm. |
| Refined sugar | ... | ... | 700.0 gm. |
| Distilled water, sufficient to produce | ... | ... | 1000.0 millilitres |

Dilute 18 millilitres of the phosphoric acid with 60 millilitres of distilled water in a small flask; add the iron and heat very gently on a water-bath until dissolved; add the resulting solution to the calcium carbonate, potassium bicarbonate, and sodium phosphate

previously triturated with 10 millilitres of the phosphoric acid and 100 millilitres of distilled water. Boil the cochineal with 375 millilitres of distilled water; filter and pour over the filter a sufficient quantity of distilled water to produce 350 millilitres of filtrate; dissolve the refined sugar in this filtrate by the aid of heat; strain and cool. Filter into this syrup the solution containing the iron phosphate, calcium phosphate, potassium phosphate and sodium phosphate and pass sufficient distilled water through the filter to produce the required volume. Allow to stand for at least forty-eight hours; filter if necessary.

SYRUPUS LIMONIS

On account of the tendency of lemon juice to deteriorate on keeping it is recommended that it should be replaced by an equivalent quantity of citric acid. The strength of the alcohol used for extracting the lemon peel may be reduced to 60 per cent. with advantage. As the result of experiments the following formula is recommended:—

| | | |
|------------------------------|-----|-----------------------|
| Lemon peel, in thin slices | ... | 60 gm. |
| Alcohol (60 per cent.) | ... | a sufficient quantity |
| Citric acid, in powder | ... | 24 gm. |
| Syrup, sufficient to produce | ... | 1000 millilitres |

Macerate the lemon peel in 70 millilitres of the alcohol (60 per cent.) for seven days; press; filter; add sufficient of the alcohol (60 per cent.) to produce 100 millilitres; dissolve the citric acid in the liquid and mix with a sufficient quantity of syrup to produce the required volume.

SYRUPUS PRUNI VIRGINIANÆ

The following revised formula is suggested:—

| | | | |
|--|-----|-----|------------------|
| Wild cherry bark, in No. 20 powder | ... | ... | 150 gm. |
| Refined sugar, in coarse powder | ... | ... | 800 gm. |
| Glycerin | ... | ... | 50 millilitres |
| Distilled water, sufficient to produce | ... | ... | 1000 millilitres |

Mix the glycerin with 200 millilitres of distilled water, moisten the wild cherry bark with 100 millilitres of the mixture; set aside for twenty-four hours in a closed vessel; pack in a percolator; pour on the remainder of the menstruum; receive the percolate in a bottle, graduated at 1,000 millilitres and having a capacity of 2,000 millilitres, in which the refined sugar has been placed, and continue the percolation with distilled water until the whole measures 1,000 millilitres; close the bottle and dissolve the refined sugar by agitation without heat; add sufficient distilled water to produce the required volume.

SYRUPUS SCILLÆ

The formula needs alteration in consequence of the reduction in the strength of Vinegar of Squill.

| | | | |
|--|-----|-----|------------------|
| Vinegar of squill | ... | ... | 450 millilitres |
| Refined sugar | ... | ... | 800 gm. |
| Distilled water, sufficient to produce | ... | ... | 1000 millilitres |

Dissolve the refined sugar in the vinegar of squill by the aid of gentle heat; strain, and when cold add sufficient distilled water to produce the required volume.

This syrup contains a slightly larger proportion of the constituents of squill than the corresponding preparation of the British Pharmacopœia, 1914.

Syrupus Sennæ.—A formula for a syrup to be made from the liquid extract of senna pods is under investigation.

SYRUPUS TOLUTANUS

The formula has been criticised on the ground that the volume of the liquid obtained by heating the balsam of tolu with the distilled water should be less than 400 millilitres. In the following formula the quantity has been reduced to 360 grm.

| | | | |
|------------------|------------|-----|-----------|
| Balsam of tolu | ... | ... | 25 grm. |
| Refined sugar | ... | ... | 660 grm. |
| Distilled water, | sufficient | to | |
| produce | ... | ... | 1000 grm. |

Add 400 millilitres of distilled water, boiling, to the balsam of tolu contained in a tared vessel; cover it lightly and boil the contents gently for half-an-hour, stirring frequently. Remove; add distilled water, if necessary, so that the liquid, when cold, weighs 360 grm. Filter the solution, add the refined sugar, dissolve by the aid of a waterbath, and finally add sufficient distilled water to produce the required weight.

SYRUPUS ZINGIBERIS

This syrup should be made simply by mixing the new strong tincture of ginger with syrup.

| | | |
|------------------------------|-----|------------------|
| Strong tincture of ginger | ... | 50 millilitres |
| Syrup, sufficient to produce | ... | 1000 millilitres |

Mix.

Tinctures

TINCTURA AURANTII

The peel should be "in thin slices." A note should be appended allowing the use of the fresh peel of the sweet orange in parts of the Empire where bitter oranges are not obtainable.

Tinctura Belladonnæ.—The strength should be reduced to 0.03 per cent. w/v of alkaloids.

Tinctura Cardamomi Composita.—The Subcommittee have considered a variety of formulae, and the following, due to Hill and Umney ("British and Colonial Pharmacist," 1916, Nov. 17) is recommended:—

| | | |
|---|-----|------------------|
| Cardamom seeds, in No. 20 powder | ... | 14 grm. |
| Caraway fruit, in No. 20 powder | ... | 14 grm. |
| Cinnamon bark, in No. 20 powder | ... | 28 grm. |
| Cochineal, in No. 20 powder | ... | 7 grm. |
| Glycerin | ... | 50 millilitres |
| Alcohol (60 per cent.), sufficient to produce | ... | 1000 millilitres |

Moisten the mixed powders with 50 millilitres of the alcohol (60 per cent.) and prepare, by percolation, 850 millilitres of tincture. Add the glycerin and sufficient of the alcohol to produce the required volume.

TINCTURA CINCHONÆ

This should be prepared by making a solution of the standardised extract.

| | | |
|---|-----|------------------|
| Extract of cinchona | ... | 100 grm. |
| Alcohol (70 per cent.), sufficient to produce | ... | 1000 millilitres |

TINCTURA CINCHONÆ COMPOSITA

The standardised extract should be used in making this preparation also.

| | | |
|---|-----|------------------|
| Dried bitter-orange peel, well bruised | ... | 50 grm. |
| Serpentary rhizome, in No. 40 powder | ... | 25 grm. |
| Cochineal, in powder | ... | 3 grm. |
| Extract of cinchona | ... | 50 grm. |
| Alcohol (70 per cent.), sufficient to produce | ... | 1000 millilitres |

Mix the dried bitter-orange peel, serpentary rhizome, and cochineal with 900 millilitres of alcohol (70 per cent.); set aside in a closed vessel for seven days, shaking frequently; strain; press the marc; mix the liquids;

dissolve the extract of cinchona in the mixed liquid; add sufficient alcohol (70 per cent.) to produce the required volume; set aside for twenty-four hours; filter.

TINCTURA COLCHICI

A tincture of the seeds standardised to contain 0.04 per cent. w/v of colchicine is required. This can be most readily prepared by dilution of the standardised liquid extract.

| | | |
|---|-----|------------------|
| Liquid extract of colchicum | ... | 100 millilitres |
| Alcohol (60 per cent.), sufficient to produce | ... | 1000 millilitres |

Mix; filter, if necessary.

This tincture contains 0.04 per cent. \pm 0.004 w/v of colchicine, and differs from the Tincture of Colchicum of the International Agreement, which contains 0.04 per cent. w/v and is made with alcohol (70 per cent.).

TINCTURA HYOSCYAMI

A standardised tincture should be prepared by dilution of the liquid extract.

Tincture of Hyoscyamus contains in 100 millilitres 0.005 gramme \pm 0.0005 of the alkaloids of hyoscyamus leaves.

| | | |
|---|-----|------------------|
| Liquid extract of hyoscyamus | ... | 100 millilitres |
| Alcohol (70 per cent.), sufficient to produce | ... | 1000 millilitres |

Mix.

Tinctura Iodi Mitis.—The quantity of potassium iodide should be reduced from 2.5 per cent. w/v to 1.5 per cent. w/v. The name should be changed to Liquor Iodi Mitis (*vide* Solutions).

TINCTURA IPECACUANHÆ

The Subcommittee having been advised that no "Wines" will be included in the next Pharmacopœia have devised the following formula for a tincture, which contains the same proportion of the alkaloids of ipecacuanha root as is contained in Vinum Ipecacuanhæ B.P. 1914. This tincture contains one-half the proportion of alkaloids contained in the Tincture of Ipecacuanha of the International Agreement. It is proposed that there should be a footnote to the monograph indicating that Tinctura Ipecacuanhæ should be dispensed when Vinum Ipecacuanhæ is ordered.

| | | |
|--|-----|------------------|
| Liquid extract of ipecacuanha | ... | 50 millilitres |
| Alcohol (90 per cent.) | ... | 200 millilitres |
| Glycerin | ... | 200 millilitres |
| Distilled water, sufficient to produce | ... | 1000 millilitres |

Mix; allow to stand for twenty-four hours; filter.

Tinctura Limonis.—The peel should be "in thin slices" and alcohol (60 per cent.) should be used instead of alcohol (90 per cent.).

TINCTURA LOBELIÆ ÆTHEREÆ

The percolation process should be modified in this instance by omitting the preliminary moistening with the menstruum. Loss of alcohol and ether is thus avoided and efficient extraction of the drug is secured.

| | | |
|--|-----|------------------|
| Lobelia, in No. 40 powder | ... | 200 grm. |
| Spirit of ether, sufficient to produce | ... | 1000 millilitres |

Pack the powder uniformly in a conical percolator, and add sufficient spirit of ether to saturate the drug. When the liquid commences to drop from the percolator, close the outlet, add sufficient spirit of ether to leave a layer above the drug and allow it to macerate for twenty-four hours. Allow percolation to proceed slowly until the percolate measures about 750 millilitres. Press the marc, mix the expressed liquid with the percolate and add sufficient of the menstruum to produce the required volume. Clarify by subsidence or filtration, if necessary.

Tinctura Opii.—Boiling distilled water should be used for converting the opium into a paste instead of distilled water heated to at least 90°.

Tinctura Quillaia.—The strength of the alcohol should be reduced to 45 per cent. Experiments have shown that alcohol of this strength efficiently extracts the saponins and the tincture is stable on keeping.

TINCTURA QUININÆ AMMONIATA

In making this tincture the final volume should be adjusted and a standard of 2 per cent. w/v of quinine sulphate demanded.

| | | | |
|---|-----|-----|------------------|
| Quinine sulphate | ... | ... | 20 gm. |
| Solution of ammonia | ... | ... | 100 millilitres |
| Distilled water | ... | ... | 300 millilitres |
| Alcohol (90 per cent.), sufficient to produce | ... | ... | 1000 millilitres |

Mix the quinine sulphate with 600 millilitres of the alcohol (90 per cent.); add the distilled water; shake, add the solution of ammonia; shake and add sufficient of the alcohol (90 per cent.) to produce the required volume; set aside for three days; filter if necessary.

Tinctura Rhei Composita.—The tincture made with 45 per cent. alcohol throws down a deposit on keeping, 60 per cent. alcohol should be used. The quantity of alcohol used for moistening the drug before packing in the percolator should be reduced to 20 millilitres.

TINCTURA SCILLÆ

The strength of this tincture should be reduced to 10 per cent. in conformity with the International Agreement.

| | | | |
|------------------------|-----|-----|------------------|
| Squill, bruised | ... | ... | 100 gm. |
| Alcohol (60 per cent.) | ... | ... | 1000 millilitres |

Prepare by the maceration process.

TINCTURA SENEGÆ

This should be prepared by dilution of the liquid extract.

| | | | |
|---|-----|-----|------------------|
| Liquid extract of senega | ... | ... | 200 millilitres |
| Alcohol (60 per cent.), sufficient to produce | ... | ... | 1000 millilitres |

Mix.

Tinctura Zingiberis Fortis and *Tinctura Zingiberis*.—The Subcommittee recommend that a Strong Tincture of Ginger be introduced with the synonym—Essence of Ginger. This should be made five times the strength of the Tincture of Ginger of the British Pharmacopœia, 1914. Tincture of Ginger should be made by diluting the Strong Tincture.

TINCTURA ZINGIBERIS FORTIS

| | | | |
|---|-----|-----|------------------|
| Ginger, in No. 20 powder | ... | ... | 500 gm. |
| Alcohol (90 per cent.), sufficient to produce | ... | ... | 1000 millilitres |

Pack the ginger uniformly in a conical percolator and add sufficient alcohol (90 per cent.) to saturate the drug. When the liquid commences to drop from the percolator, close the outlet, add sufficient alcohol (90 per cent.) to leave a layer above the drug, and allow it to macerate for twenty-four hours. Allow percolation to proceed slowly until the percolate measures about 750 millilitres. Press the marc, mix the expressed liquid with the percolate and add sufficient of the menstruum to produce the required volume. Clarify by subsidence or filtration, if necessary.

TINCTURA ZINGIBERIS

| | | | |
|---|-----|-----|------------------|
| Strong tincture of ginger | ... | ... | 200 millilitres |
| Alcohol (90 per cent.), sufficient to produce | ... | ... | 1000 millilitres |

Mix.

Vinegars

ACETUM SCILLÆ

The strength should be reduced in order to conform to the International Agreement. The tendency of this preparation to deposit on keeping may be prevented by heating the liquid to boiling and filtering. Experiments have shown that the activity of the preparation is not affected by heating in this way.

| | | | |
|--------------------|-----|-----|------------------|
| Squill, bruised | ... | ... | 100 gm. |
| Dilute acetic acid | ... | ... | 1000 millilitres |

Macerate the squill with the dilute acetic acid for seven days, with occasional agitation. Drain off the liquid; press the marc; mix the two liquids; heat to boiling; filter while hot. Set aside for seven days, filter.

Waters

While recognising the superiority of aromatic waters prepared by distillation, the Subcommittee consider that

recognition should be given to alternative methods of preparation.

The following general scheme should be introduced:—

GENERAL PROCESSES FOR PREPARATION OF AROMATIC WATERS

1. Distilled Aromatic Waters.

(a) *Distillation*.—Place the crude drug or essential oil from which the Aromatic Water is to be prepared in a suitable still with the specified quantity of good potable water. Distil until the specified quantity of distillate has been collected. Shake the distillate thoroughly; set aside for twelve hours. Separate any excess of oil and use the aqueous portion of the distillate.

2. When Distilled Aromatic Waters are not specifically prescribed.

(b) *Solution*.—Shake the essential oil corresponding to the Aromatic Water required, with five hundred times its volume of distilled water. Repeat the shaking several times during a period of about fifteen minutes. Set the mixture aside for twelve hours, then filter.

Alternatively, triturate the oil with a sufficient quantity of calcium phosphate or purified talc or purified siliceous earth or puffed filter paper and add gradually five hundred times its volume of distilled water, then filter.

(c) *Dilution from Concentrated Waters*.—Dilute the concentrated water with thirty-nine times its own volume of distilled water.

AQUA ANETHI

Dill Water prepared by distillation should be described under the name Aqua Anethi Destillata. In a footnote to the monograph permission should be given to dispense a Dill Water made by one of the other methods, if the distilled preparation is not specifically prescribed.

AQUA ANETHI DESTILLATA

Distilled Dill Water

| | | | |
|------------|-----|-----|------------------|
| Dill fruit | ... | ... | 100 gm. |
| Water | ... | ... | 2000 millilitres |

Distil 1,000 millilitres by the process described under 1 (a).

When Dill Water is prescribed, Distilled Dill Water not being specified, a Dill Water made by any one of the processes described on page — shall be dispensed. *Aqua Cinnamomi*, *Aqua Mentha Piperitæ*.—These should be dealt with in the same way as Dill Water.

CONCENTRATED WATERS

Concentrated Waters of Dill, Cinnamon and Peppermint will be required. These should be made of 2 per cent. v/v strength by the following processes:—

| | | | |
|--|-----|-----|------------------|
| Volatile oil | ... | ... | 20 millilitres |
| Alcohol (90 per cent.) | ... | ... | 600 millilitres |
| Powdered talc | ... | ... | 50 millilitres |
| Distilled water, sufficient to produce | ... | ... | 1000 millilitres |

Dissolve the oil in the alcohol (90 per cent.) contained in a bottle and add sufficient distilled water in successive small quantities to produce 1,000 millilitres; shaking vigorously after each addition. Add the powdered talc and shake; allow to stand for a few hours, occasionally shaking; filter.

This Concentrated Water when diluted with thirty-nine times its volume of distilled water yields a preparation which is approximately equivalent in strength to Distilled . . . Water, but contains 1.5 per cent. v/v of alcohol (90 per cent.).

Miscellaneous Preparations

CATAPLASMA KAOLINI

The Subcommittee recommend the inclusion of the following formula for Kaolin Poultice:—

| | | | |
|---------------------------------------|-----|-----|-----------|
| Kaolin, in fine powder, dried at 100° | ... | ... | 527.0 gm. |
| Boric acid, in fine powder | ... | ... | 45.0 gm. |
| Methyl salicylate | ... | ... | 2.0 gm. |
| Oil of peppermint | ... | ... | 0.5 gm. |
| Thymol | ... | ... | 0.5 gm. |
| Glycerin | ... | ... | 425.0 gm. |

Mix the kaolin with the glycerin, heat to 120°, and maintain it at that temperature for one hour with

occasional stirring; allow to cool, add the boric acid and mix. Add the thymol, previously dissolved in the methyl salicylate and oil of peppermint; mix the whole thoroughly.

GELATINUM ZINCI

The following formula should be introduced and "Unna's Paste" given as a synonym:—

| | |
|-------------------------------|----------|
| Zinc oxide, finely sifted ... | 150 grm. |
| Gelatin ... | 150 grm. |
| Glycerin ... | 350 grm. |
| Distilled water ... | 350 grm. |

Soak the gelatin in the distilled water until thoroughly softened; add the glycerin and heat on a water-

bath until the gelatin is dissolved. Incorporate the zinc oxide and stir until cool.

PASTA ZINCI

The Subcommittee are advised that a formula for a stiff paste containing a large proportion of powder is required as a basis for dermatological pastes. The following formula is recommended:—

| | |
|-------------------------------|----------|
| Zinc oxide, finely sifted ... | 250 grm. |
| Starch, in fine powder ... | 250 grm. |
| Soft paraffin, white ... | 500 grm. |

Melt the soft paraffin, incorporate the zinc oxide and starch; stir until cool.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Local Reports

ENGLAND AND WALES

Denbighshire.—At the recent quarterly meeting of the county Insurance Committee it was reported that the Committee had been called upon to investigate three complaints against practitioners and eight complaints against chemists during the year. None of the complaints was of a serious character. The complaints against the chemists were in respect of dispensing which had not reached the high standard of accuracy expected by the Committee. The number of prescriptions issued during the year was 170,354, at a cost of £5,605 19s. The cost of insulin supplied to insured persons in the county amounted to £105 17s., and the cost of serums and vaccines was £12 4s. Two cases in which chemists had not accurately supplied the drugs ordered by insurance practitioners were referred to the Pharmaceutical Service Subcommittee for investigation.

Derbyshire.—At a meeting of the county Insurance Committee, held recently, it was reported that the number of prescriptions dispensed in the area during the quarter ended June 30 was 158,863, giving a frequency of 0.91 per insured person. The average ingredient cost was 3.3d., and the average dispensing fee 4.3d. per insured person.

Dewsbury.—At a meeting of the borough Insurance Committee, on October 8, it was reported, with reference to an alleged discrepancy in a test sample of medicine made up by a chemist, that the discrepancy was due to the fact that the sample had not been accurately divided. It was decided that no action be taken.

Huddersfield.—The Huddersfield Borough Insurance Committee have adopted a recommendation by the Pharmaceutical Service Subcommittee that a chemist be censured for incorrectly dispensing a test prescription. It was stated that three ingredients were missing, and that the mixture contained two ingredients not called for by the prescription. The chemist's explanation was that the formula he had used was from the old local formulary, whereas it should have been from the new National Formulary. The Subcommittee reported that they were of the opinion that the chemist rather exceeded his duty in presuming to know what the doctor intended for his patient, and that if he had any doubt in the matter he should have referred the matter to the doctor.

London.—A meeting of the London Insurance Committee was held recently. The Finance Subcommittee recommended the payment of accounts amounting to £46,081 18s. 5d. The accounts were passed. The Committee also reported that the total cost of drugs and appliances, etc., supplied by chemists for the year ended December 31 was £294,479 15s. 6d. Fines, varying from £1 to £2, were inflicted on a number of chemists for breaches of the terms of service.

Middlesex.—The bi-monthly meeting of the Middlesex Insurance Committee was held recently. The Finance Subcommittee reported the payment of

accounts amounting to £62,440 11s. 1d., including the following to chemists:—June accounts, 1930 (drugs in full and 95 per cent. of fees), £4,548 9s. 3d.; July accounts (drugs and fees at full value), £4,916 2s. 6d. The action of the Subcommittee was confirmed. On the report of the Pharmaceutical Service Subcommittee four chemists were censured for inaccurate dispensing.

SCOTLAND

Roxburgh.—At a meeting of the Roxburgh County Insurance Committee, held recently, the clerk submitted a statement of the cost of drugs for 1929, which showed the amount to be £1,741 18s. 3½d., compared with £1,688 1s. 9d. in 1928. The number of insured persons on the Committee's register as at April 1 and July 1, 1930, was stated to be 19,762 and 19,749 respectively.

Stirling.—At a meeting of the borough Insurance Committee, held recently, a report showed that, of the samples taken to date, all had proved satisfactory with one exception, in which case an excess of diluted sulphuric acid to the extent of 127 per cent. was found. When the chemist was summoned to appear before the Pharmaceutical Service Subcommittee he explained that he had practically made up the prescription when a customer in the shop had an epileptic fit. In the excitement of the moment he overpoured the diluted sulphuric acid and laid down the bottle. When the customer revived he made up the prescription anew, but, unfortunately, put the label on the first bottle. The Committee reported that they were satisfied with the chemist's explanation, and recommended that no further action be taken. A complaint as to the use of an expensive flavouring agent by a local doctor was under consideration, and the Committee referred the matter back to the Panel Committee for the latter to decide whether or not there had been extravagance. The question at the previous meeting as to whether liver extract was to be regarded as proper and sufficient medicine in the sense of the National Health Insurance Acts was again before the Committee, and it was agreed that liver extract be allowed in the Burgh area as a charge against the drug fund.

NORTHERN IRELAND

Londonderry.—At the first meeting of the Area Pharmaceutical Committee for the City and County the following appointments were made:—*Chairman*, Mr. R. F. Macartney (Coleraine); *Secretary*, Mr. S. E. Campbell (Londonderry); *Pharmaceutical Services Committee*, Messrs. S. S. Badger (Magherafelt), W. C. Murphy (Limavady), J. F. O'Donnell (Londonderry); *Joint Services Committee*, Messrs. R. F. Macartney (Coleraine) and H. M. Kelly (Londonderry).

Tyrone.—The Tyrone and Fermanagh Area Committee has made the following appointments:—*Chairman*, Mr. D. O. McKinney (Cookstown); *Secretary*, Mr. S. Gamble (Fivemiletown); *Pharmaceutical Services Committee*, Messrs. R. E. Marshall (Dungannon), W. V. Bates (Omagh), and S. Gamble (Fivemiletown); *Joint Services Committee*, Messrs. I. W. Parker (Enniskillen) and S. Gamble (Fivemiletown).

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 28 Essex Street, London, W.C.2."

QUALITATIVE ANALYSIS

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture may contain metallic and acidic radicals occurring in the British Pharmacopœia, or any of the commoner radicals not mentioned in that work, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Tuesday, November 11, on which day the samples will be posted. Students' reports will be received up to Saturday, November 22. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

This analysis forms the opening exercise in

THE ANALYTICAL TOURNAMENT

for the current winter session. Students may forward six stamped addressed envelopes (marked on the top "Corner for Students"), to be utilised month by month for the "salts." We offer special certificates and prizes for the best series of reports submitted on the exercises to be set from November 1930 to April 1931 inclusive. The awards will be made to the students who obtain the highest aggregates of marks for their reports upon the whole six exercises, and will comprise:—

First Prize.—Certificate of honour and books to the value of three guineas.

Second Prize.—Certificate of honour and books to the value of two guineas.

Third Prize.—Certificate of honour and books to the value of one guinea.

The competition is open to all pharmacy students who have not passed the Pharmaceutical Chemist Qualifying examination in Great Britain or Northern Ireland or the Licence Examination in the Irish Free State. Former tournament prize-winners are disqualified from taking a tournament prize, unless it be a superior one to that previously gained. Besides the tournament prizes, the usual awards will be made to junior students, viz.:—

First Prize.—Books to the value of 15s. or thereabouts.

Second Prize.—Books to the value of 7s. 6d. or thereabouts.

These monthly prizes will be awarded only to apprentices or assistants who have not passed in Chemistry in the Preliminary Scientific Examination in Great Britain, in the Licence Examination in the Irish Free State, or in Chemistry, Part I, in Northern Ireland, which fact must be attested on their reports. They will not be awarded to former winners of Tournament prizes. Students who adopt a *nom de plume* must adhere to it throughout the tournament.

CORRECTION.—In the last sentence but one of the report on the October exercise (*C. & D.*, November 1, p. 559), owing to the inadvertent omission of a few words, it is incorrectly made to appear that zinc phosphate is dissolved by ammonium chloride. The opening words of the sentence should read:—"In the present case, since zinc phosphate is dissolved by ammonia in the presence of excess of ammonium chloride . . ." etc., the words here printed in italics being supplied. Will students please note?

A Malayan Medicine Book

THE material for this little book on Malay medicine* is a manuscript found in a locker of the Pharmaceutical Society's library. It is a list of over 500 prescriptions with vernacular names of diseases and the plants used in preparing the various medicaments. The book was unintelligible to an English reader, and was accordingly regarded as a curiosity. About two years ago the manuscript was handed over to two experts, Dr. J. D. Gimlette, at one time a civil surgeon in the Straits Settlements, and author of "Malay Poisons and Charm Cures," and Mr. I. H. Burkill, who was for some years Director of the Gardens at Singapore. The result of their labours is the production of a valuable contribution to our knowledge of the diseases and materia medica of Malaya. The original manuscript was written by a Government clerk or munshi, probably under the supervision of a British officer. The authors surmise that it was written about the year 1886, and formed part of the collections made in the Straits for the Colonial and Indian Exhibition in London.

The prescriptions are very variable in their composition, varying from a compound of twenty-nine ingredients, showing the ancient devotion to polypharmacy, to a simple infusion or powder of a single drug. The preparation of the medicines is of a very primitive character. The roots and barks are directed to be rubbed to powder or paste on a flat stone similar to the curry-stone used in kitchens throughout the East. Decoctions and extracts are made by boiling the ingredients in an earthenware cooking pot; sometimes the decoction is allowed to stand all night before it is administered, and at other times it has to be used to the exclusion of all other drinks until it is finished.

No very exact system of weights and measures is employed in the recipes. Leaves to the number of five or seven are taken as a dose; seven ripe fruits of a tree form the base of a mixture to last for three years, the number no doubt being associated with some magic or charm. Egg-shells are occasionally employed for measuring the dose. But the nearest approach to the rule of thumb is when "to the depth of the first joint of the forefinger" is designated as a measure for a dose of a liquid medicine.

Dr. Gimlette has carefully revised all statements regarding the diagnosis and treatment of the tropical diseases enumerated in the list. Unfortunately there is no systematic arrangement of the ailments, which points to the supposition that the prescriptions have been collected at different times and from various districts. In addition to the drugs administered internally, the Malayan doctors believe in medicated baths, bandages and fomentations.

To the student of materia medica, Mr. Burkill's identification of Malayan drugs is of great value. Early in the year we commented on a Bulletin of the Straits Settlements, written by Dr. Hooper, on "Drugs of Chinese Pharmacies in Malaya" (*C. & D.*, 1930, I, 426). This consisted of a list of drugs sold by Chinese colonists chiefly in Singapore and Penang. It is not unreasonable to suppose that the compiler of the present manuscript lived in a port, probably Penang, where men of various nationalities mix, where simples are found locally and where well-stocked drug shops supply articles from all parts of the world. But the value of the Bulletin consists in the publication for the first time of an authentic list of correctly determined indigenous drugs. Some are already well known, such as gambier, cubet, areca nut, nutmeg, Malacca aëgle wood, camphor and laka wood. There are, however, a large number of barks and roots which have not been pharmacognostically examined, and these should receive attention from chemists and pharmacologists.

* "The Medical Book of Malayan Medicine"; translated by McHe Ismail, Munshi; edited with medical notes, by J. D. Gimlette, and determinations of the drugs by I. H. Burkill. \$2.50. The Gardens Bulletin, Straits Settlements.

The Natural and Synthetic Camphor Industry

A concise review of the Conditions existing in the Camphor Market, particularly in regard to the rivalry existing between the Natural and Synthetic Product

THE United States Department of Foreign and Domestic Commerce has recently issued a valuable and interesting report covering both natural and synthetic camphor. It is pointed out that the United States imports approximately one-third of an estimated world production of 25,000,000 lb., of which 10,000,000 lb. is natural and 15,000,000 lb. synthetic. Of the latter quantity it is estimated that the celluloid industries, which were first introduced into the United States in 1869, consumes over 4,000,000 lb. of camphor annually.

INCREASING USE OF SYNTHETIC CAMPHOR

Since the beginning of the twentieth century, when synthetic camphor began to arouse considerable interest, the production of this commodity has been largely regulated by the price and supply of natural camphor controlled by the Japanese Government.

Of late the steadily increasing penetration of world markets by the synthetic product has become a matter of particular concern to natural camphor producers, and it is estimated that the world output of synthetic camphor approximates 15,000,000 lb. a year, of which 12,000,000 lb. are manufactured in Germany and the remainder in France, Switzerland and Italy.

The total utilisation of both natural and synthetic camphor is distributed approximately as follows:—66 per cent. to the celluloid industry, 14 per cent. to the manufacture of disinfectants and similar products, 10 per cent. to the pharmaceutical industry, and 10 per cent. to the manufacture of explosives.

IMPORTS OF NATURAL AND SYNTHETIC CAMPHOR

In the United States, for instance, since 1923, imports of synthetic camphor, for the most part, have been upwards, whereas imports of the natural product have fluctuated. The following table shows that Japan shipped more crude and refined camphor to the United States in 1929 than in either 1927 or 1928. In spite of this, Germany expanded its market for the synthetic in 1929 to a "record."

Imports of Camphor into the United States

| Year | Crude | | Refined | | Synthetic | |
|------|-----------|-----------|-----------|-----------|-----------|-----------|
| | lb. | Value | lb. | Value | lb. | Value |
| | Dollars | | Dollars | | Dollars | |
| 1923 | 3,641,000 | 2,319,000 | 3,240,000 | 2,382,000 | 489,000 | 302,000 |
| 1924 | 1,183,000 | 1,007,000 | 2,112,000 | 1,368,000 | 682,000 | 378,000 |
| 1925 | 2,369,000 | 1,301,000 | 1,589,000 | 953,000 | 1,835,000 | 921,000 |
| 1926 | 2,019,005 | 1,159,000 | 1,170,000 | 763,000 | 2,944,000 | 1,558,000 |
| 1927 | 1,690,000 | 810,000 | 1,481,000 | 823,000 | 2,934,000 | 1,263,000 |
| 1928 | 4,365,000 | 1,649,000 | 1,176,000 | 593,000 | 2,265,000 | 909,000 |
| 1929 | 4,204,000 | 1,580,000 | 1,431,000 | 793,000 | 3,957,000 | 1,376,000 |

Stocks of camphor on hand in bonded warehouses advanced sixfold in 1929 (1,386,000 lb.) compared with either 1927 (201,470 lb.) or 1928 (217,000 lb.). The "record" import figure registered in 1929, therefore, is not indicative of a proportionate increase in consumption.

PRODUCTION OF THE NATURAL PRODUCT

It is calculated that approximately 77 per cent. of the world's camphor trees are found in Taiwan (Formosa), about 15 per cent. in Japan proper, and 8 per cent. in Southern China. Attempts to grow camphor trees for commercial purposes in various countries, particularly in Java, Ceylon, Madagascar, Egypt, Italy, France, Brazil, Florida and elsewhere in the southern part of the United States have ended in

discouragement, owing chiefly to the fact that fifty years is required to produce a tree of profitable yield, and then the tree is necessarily destroyed in the process of obtaining camphor.

Official statistics show Formosa's production of camphor and camphor oil, respectively, to have averaged annually throughout the twenty-six years from the establishment of the Government's monopoly of camphor to March 31, 1925, 4,379,541 lb. crude camphor and 6,014,661 lb. of camphor oil. It is stated that the average annual production of crude camphor in Japan proper approximates 1,600,000 lb., of camphor oil 2,070,000 lb., and of refined camphor 2,700,000 lb.

A wide divergence will be found in the production and export figures for camphor from Japan and Formosa and the exports, plus the domestic consumption, often appear to exceed production, explained partly by the amount of gum camphor obtained from camphor oil and not listed as such, as well as by camphor from China marketed via Japan, which is not included in the production figures. It must be remembered that considerable quantities of crude camphor are obtained from camphor oil, for instance, the crude camphor produced at the Taihoku camphor factory from 6,143,000 lb. and mountain camphor oil in 1924 reached 2,715,000 lb. and in 1925 7,670,000 lb. of camphor oil yielded 3,058,000 lb. of crude camphor.

DEVELOPMENT OF THE JAPANESE MONOPOLY

The natural camphor industry in Taiwan (Formosa) has been a Government monopoly since 1899. Crude camphor with camphor oil, in Japan proper, was made a Government monopoly in 1903. This Japanese-Taiwan monopoly has since controlled the output and prices of the world's natural camphor, a large proportion of China's camphor trees having been gradually acquired by the monopoly by arrangement or purchase during the intervening twenty-five years. Production, sales and prices are governed directly by the Bureau of Monopolies at Tokyo, a division of the Department of Finance of the Imperial Government, and by the Bureau of Monopolies of the Governor-General of Taiwan at Taihoku.

The Taiwan Camphor Producing Co., Ltd., since April 1919 has been vested in all crude camphor and camphor oil producing rights in Taiwan, and has paid 8 per cent. in dividends. The Japan Camphor Co., Ltd., of Kobe, since 1918 the sole authorised wholesale marketing medium for Japanese and Formosan camphor—whether in the form of camphor oil, crude camphor in its several grades or refined camphor—has been enabled to make satisfactory earnings on its 6,750,000 yen paid up of 9,000,000 yen.

COMPETITION OF SYNTHETIC CAMPHOR

The commercial history of natural camphor in Japan during the last few years has been one of repeated price reduction in order to meet the competition of synthetic camphor. The most recent reduction was made in February 1930, following the recovery of the exchange rate with the United States, as a result of the lifting of the gold embargo. It was in the form of a reduced price paid to the Taiwan Camphor Manufacturing Co. by the Monopoly Bureau of the Taiwan Government. The strength of the synthetic products competition, especially in the crude camphor in the United States, induced the Governor-General of Taiwan to issue an order, effective May 1, 1926, reducing the price to be paid to the Taiwan Camphor Producing Co., Ltd., by the Bureau of Monopolies

about 25 per cent. on all grades. The order stipulated that the wages of camphor workers should not be lowered on account of such reduction in prices. This reduction in the cost of camphor to the Bureau resulted in reduced export prices from July 1926. German synthetic prices were lowered at once, and on January 1, 1927, and again in August 1927. Further export price reductions were made by the Japanese-Taiwan monopoly. In effecting these latter reductions in export prices, corresponding reductions were made in the prices paid by the Bureau to the producing company, resulting in various economies, including the discharge of a number of employees. In 1928 the Governor General of Taiwan decided to restrict production and to intensify efforts to enlarge the sales of refined camphor, to produce and market profitable by-products, and to cease publishing statistics of camphor production, production costs, or other information likely to be helpful to synthetic producers in the marketing of their product.

CAMPHOR RESOURCES IN CHINA

Reliable statistics of China's camphor production are not available, although it is believed that the exports are a little less than production. Resources, however, have been sufficient for an exceptionally large production whenever there is the stimulus of any marked increase in export prices, as in 1906 and 1907, when supplies from Japan and Formosa were curtailed. This situation also obtained at times during the war period. Total exports to all countries during the five-year period, 1919 to 1923, averaged 2,600,000 lb. annually, of which the United States absorbed 30 to 60 per cent. during this period.

EUROPEAN SYNTHETIC CAMPHOR

The situation as regards the production of synthetic camphor is reviewed in the following paragraphs. Germany is by far the most important producer, consequently it is the largest source of supply of United States requirements of the synthetic product, in 1929 furnishing 3,902,000 lb., valued at \$1,356,000, or over 90 per cent. of the United States imports of synthetic. Three German firms are now producing synthetic camphor principally from American turpentine. Schering-Kahlbaum A.-G. (Berlin), which is believed to be furnishing one-half of the total German output, and is said to import annually 5,000 metric tons of American turpentine, I.G. Farbenindustrie A.G. and Boehringer und Soehne (Mannheim). The total German production is estimated at between 6,000 and 7,000 metric tons annually. The Schering-Kahlbaum and the I.G. plants use the Stephan process. It is reported that Germany imports about 300 metric tons annually of the natural product, chiefly from Japan, whereas exports of the synthetic amount to around ten times that figure. Official German statistics indicate that exports in 1929 registered nearly 100 per cent. increase in value.

Prior to 1925 Italy was entirely dependent on imports for its requirements of camphor. In that year, however, the Societa Marengo of Genoa began operations in a plant at Spinetta Marengo, near Alexandria, for the production of synthetic camphor. The most recent official figures on the output of this plant are for 1927, when production reached 90 metric tons. From unofficial sources it has been learned that the Spinetta Marengo plant has an annual capacity of approximately 150 metric tons, and that during 1929 the output of that unit amounted to about 100 metric tons. The domestic output is not sufficient to meet the home demand, and both natural camphor from Japan and synthetic from Germany are imported.

Synthetic camphor at present is being produced on a commercial scale in France by a single company—the Compagnie Alsacienne des Produits Chimiques. Two other companies are in the experimental stage of development. The Compagnie Alsacienne started operations in October 1928, and up to the end of that year claimed to have produced about 75 metric tons. Production during 1929 was placed at 40 metric tons per month. The French export trade in syn-

thetic camphor during the last three years was as follows:—1927, four metric tons; 1928, three tons; and 1929, 105 metric tons. Imports were 307 metric tons in 1927, 331 metric tons in 1928, and 366 metric tons in 1929. It is understood that synthetic camphor is not manufactured in Great Britain, at least for general sale, although it is believed (says the report) that some production has been undertaken by one or two firms for their own use. A reliable estimate places imports of the synthetic product at 50 to 75 metric tons per annum. Probably the participation of Germany in British camphor imports is closely indicative of actual receipts of synthetic camphor. Official British statistics for imports during 1927 and 1928 follow: From Japan, 336 metric tons in 1928, compared with 227 tons in 1927; Germany, 87 tons in 1928, against 105 tons in 1927; China, one ton in 1928, against three tons in 1927; other countries, one ton in 1928 and 13 tons in 1927. There has been no production of synthetic camphor in Spain since the Industrial Resinas Ruth, S.A., closed its factory in Santander at the end of 1927. The Santander factory began manufacturing camphor and related products in August, 1925, and during the period of operation turned out approximately 2,712 kilos of synthetic camphor. At the present time practically all the products of the camphor section have been disposed of and the outlook for reopening is not favourable.

NEW USES FOR CAMPHOR

While the quantity of crude, refined and synthetic camphor imported into the United States during 1924 was the greatest for several years, the future outlook is dependent on the ability of camphor to maintain its position as a plasticizer in the pyroxylin products industry. This industry is embarking in many new fields, one of the most important being the development of nonshatterable glass for use in windshields and windows.

Japanese Peppermint

ACCORDING to the "Yakugyo Shuhō," the Imperial Government is contemplating the nationalisation of the peppermint industry, and it is reported that its decision will be based on the report of the Governor of Hokkaido, who is to make a detailed survey of the industry in that province.

The following report made by the Japan Agricultural Association shows the condition of the peppermint industry in that country:—The amount of the peppermint crop varies greatly in different years because of price variation, but the amount has steadily increased. It is grown mainly in Hokkaido, followed by Okayama and Hiroshima. Peppermint oil has been distilled on an average of one million kin per annum during the past three years. The finished product has been estimated at 600,000 kin per year. About 90 per cent. of the peppermint oil is exported: Japan and the United States are the two principal producing countries in the world, the Japan crop being about 70 per cent. of the world's supply. Peppermint has had an average export of nine million yen during the past three years.

The crop is gathered from the latter part of June to the middle of October. The dried leaves form only 25 per cent. of the undried leaves and the quantity of crude oil obtained from the dried leaves is one per cent., while menthol crystals in crude peppermint oil are about 45 per cent. Japanese exports of menthol crystals in 1917 were 133,200 kin valued at 1,509,729 yen; menthol cones 62,500 kin, valued at 74,772 yen; and peppermint oil 184,900 kin, valued at 697,250 yen. The figures of 1929 are as follows:—Menthol crystals, 463,800 kin (517,250 yen); menthol cones, 109,800 kin (121,357 yen); peppermint oil, 531,100 kin (2,275,620 yen). The following are the percentages of exports:—America, 55 per cent.; France, 13 per cent.; Britain, 9 per cent.; and Germany, 7 per cent.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

28 Essex Street, W.C.2, November 6

BUSINESS in pharmaceutical chemicals continues of fairly good volume, although price-cutting is somewhat evident. A feature is the advance in tartaric acid, with a much better tone; cream of tartar also shows a slight recovery, but citric acid is without improvement. The prices of salicylic acid (B.P.) and sodium salicylate have been revised so far as regards druggists' quantities. In crude drugs, gum acacia is quiet and the turn easier. Belgian valerian is offered cheaply, and chamomiles remain firm. Russian cantharides are scarce and firmly held. Menthol for forward shipment is dominated by certain parties working in opposition. Essential oil changes include a decline in lemon, bergamot and orange; Java citronella is firmer. There is as yet no indication of a definite improvement in wholesale merchant trading in the commodity markets, but in certain directions there is a slowly increasing outlet for manufactured products for home consumption; on the other hand, general export trade leaves much to be desired. However confidence is gaining ground as to more stable conditions in commodities, although attempts to raise prices unduly under the influence of speculative undercurrents are making for sensitive markets, as has been the case in sugar and also rubber, both of which fell considerably from the best figures reached last week. Among the industrial chemicals, a limited but steady trade continues, with prices mostly unchanged; chlorates are weak, and copper sulphate is easier; arsenic is dearer. In the coal-tar products section, carbolic acid crystals are cheaper from the makers, other items being unchanged. Among the so-called vegetable oils palm, palm kernel and acid oils are slightly dearer. Linseed and castor are easier, while American turpentine is dearer on an improved demand. In the mineral oil section, crude lubricating oils are easier, and benzol is dearer.

| Higher | Firmer | Easier | Lower |
|-----------------|-----------------|-----------------|------------------|
| Benzol | Citronella oil | Anise, star oil | Carbolic acid |
| Coconut | Bergamot (Java) | Bergamot Oil | crystals |
| (desicc.) | Cotton oils | Castor oil | (makers) |
| Male fern ext. | Cream of tartar | Copper sulphate | Fenugreek seed |
| Palm kernel oil | Spike Oil | Linseed oil | Galls (Ch.) |
| Palm oil | | Orange Oil | Lemon oil |
| Tartaric acid | | Rubber | Lubricating oils |
| Turpentine | | Shellac | (crude) |
| | | Wood oil | Terebene |

Crude Drugs, etc.

AGAR-AGAR is firm at 4s. 6d. per lb. for Kobe No. 1 and at 4s. 3d. for Kobe No. 2.

ANTIMONY has been dull but without alteration in English refined, which is about £46, with good ordinary brands selling down to about £26. There has been slightly more inquiry for Chinese regulus on the spot at from about £26 to £26 5s. Only little interest is shown for shipment, for which c.i.f. terms are £23 15s. Chinese crude on the spot is nominally £21 10s., and Chinese white oxide is £31 to £32.

ARECA can now be had at 40s. per cwt. ex parcel just arrived; forward price is about 32s. 6d. to 35s. c.i.f.

BALSAM TOLU is steady at 3s. 3d. per lb. on the spot, and to arrive 3s. 3d. c.i.f. is quoted.

BISMUTH.—The demand is quiet under the influence of the cheap offers of Continental metal, but the Syndicate's price has been maintained at 4s. per lb. for at least five-cwt. lots. The output of metallic bismuth in Canada for last year was 194,329 lb., against only a small quantity in previous years. Canada, nevertheless, imported 39,304 lb. of bismuth salts.

CADMIUM.—The demand is dragging, although the undertone is somewhat steadier at the current prices of from

2s. 1d. to 2s. 2d. per lb. The market is clearly affected by excessive supplies; on the other hand, the improved rate of consumption appears to be well maintained.

CAMPOR (REFINED).—Japanese slabs are quiet, spot offering at 2s. 2d., and to arrive at 1s. 11½d. per lb. c.i.f.; 4-oz. tablets offer at 2s. 9d. spot and at 2s. 6½d. c.i.f. Flowers are scarcer on spot, but parcels are due by a boat arriving in the middle of next week: 2s. 4d. is quoted on the spot and 2s. 0½d. c.i.f.

CANTHARIDES.—Russian are very scarce on the spot and supplies are now chiefly being held by Hamburg and consist of a few cwt. at 2s. 2d. c.i.f. after 2s. paid. On the spot, 2s. 3d. per lb. is wanted for good flies.

CASCARA SAGRADA.—The "Australien," from Portland O., has brought 1,651 bags to Hull, and the "Benjamin Franklin" 594 bags from Seattle to London.

CASTORUM.—An auction of about 1,000 lb. castorum will be held in London by the Hudson's Bay Co. on Wednesday, December 3. It will be recalled that no auction was held last year, the previous sale taking place in December 1928.

CHAMOMILES remain firm, with really good white becoming scarcer, so that buyers have to fall back on medium grades; thirds and pickings have been practically cleared. Good white are quoted at 165s. per cwt., and medium grades at from 130s. to 140s. as to quality.

CLOVES are quiet but firm, with sales of Zanzibar on the spot at 1s. 5d. per lb. October-December shipment is quoted at 1s. 1½d. c.i.f. Madagascar on the spot is quoted at 1s. 4½d. per lb.

The landings of Zanzibar in London during the week ended November 1 amounted to nil and the deliveries to nil, leaving a stock of 290, against 361 in 1929 and 3,560 bales in 1928. From January 1 to November 1 the landings of Zanzibar have been 6,257, against 6,018 in 1929, and the deliveries have been 5,964, against 8,044 in 1929. Of Madagascar the landings for the week ended November 1 were 134 and the deliveries 134, leaving a stock of 670, against 24 in 1929 and 1,763 bales in 1928; the landings of Madagascar this year to date have been 5,370, against 48 in 1929, and the deliveries 4,713, against 3,369 in 1929.

The exports from Zanzibar during the period January to August 1930 amounted to 96,156 cwt., against 50,699 cwt. for the corresponding period of 1929.

COCONUT (DESICCATED) is dearer, with very little business passing. Fine, medium and coarse on spot is now quoted at 25s. per cwt. For shipment, the market is firm in Colombo at 24s. 6d. per cwt. c.i.f. for November-December shipment.

COD-LIVER OIL.—A fair amount of business has been done during the past week, prices remaining unchanged at from about 100s. to 102s. per barrel c.i.f. for finest new non-freezing steam-refined oil. The exports from Norway from January 1 to October 19, 1930, were 71,125 barrels against 93,257 barrels for the corresponding period of 1929. Oil for veterinary purposes has been in brisk demand in Norway.

CORN PRODUCTS, ETC.—Guaranteed water-white English glucose (corn syrup) is unchanged at 19s. per cwt. for delivery up to the end of the year ex store, London; American guaranteed water-white is also 19s. net for delivery up to end of the year, ex store, London. Dutch maize starch powder (cornflour) is 12s. per cwt. on the spot; American for delivery up to the end of the year is 12s. 3d. ex store, London. Pearl starch for delivery up to the end of the year is 11s. 9d. per cwt. ex store, London. Dutch maize starch crystals is 19s. 6d. on the spot, and American for delivery up to the end of the year is 16s. per cwt. ex store, London. Dutch dextrin is quoted at 18s. to 22s. per cwt. on the spot, as to quality. American canary for delivery up to the end of the year is 13s. 4½d.; white is 13s. 1½d. per cwt. net ex store, London, for delivery up to the end of the year. Dutch farina is 9s. 6d. per cwt. on the spot, and to arrive 7s. 10½d. is quoted f.o.b. for October-December shipment. Polish for October-December shipment is 7s. 7½d. f.o.b., and German is 8s. c.i.f.

ERGOT is in limited demand, with sound Russian offered at from 10d. to 10½d. per lb., and Spanish at 2s. 3d. on the spot; the latter is 2s. 2d. c.i.f.

GALLS.—Chinese are cheaper, both plum-shaped and ordinary offering to arrive for December-January shipment at 42s. per cwt. c.i.f.

GUM ACACIA remains quiet, with no material alteration, values on balance being the turn easier. Old crop Kordofan is still offered for November shipment at 46s. per cwt. c.i.f. for natural sorts, and at 48s. for cleaned. New crop for December-January shipment is quoted at 45s. 6d. c.i.f. for natural and 47s. 6d. c.i.f. for cleaned. Kordofan cleaned on the spot is unchanged, and sales have been made at from 58s. to 60s., while natural is unchanged at 56s. Bleached is steady at from 147s. 6d. to 155s. as to quality. Talha is 35s. spot and 27s. c.i.f.

LYCOPodium.—Treble-sifted is offered at 3s. 7½d. per kilo.

MAGNESIUM.—Business has been quiet, but British makers' terms are well maintained at from 2s. 9d. to 3s. 3d. for small sticks and bars, according to specification, and ribbon sells at 13s. to 15s., wire at 10s. to 12s. 6d., and powder at 5s. to 7s. 6d. per lb. according to quantity.

MALE FERN EXT. is dearer at from 3s. 7d. to 3s. 9d. per lb. for 24 to 25 per cent. filicin.

MENTHOL, which has been looked upon as the "football of the drug trade," is living up to its reputation, and the violent fluctuations which have taken place in forward prices this week make it difficult for traders to carry on business in a satisfactory manner. The key to the situation at the moment appears to be the tactics of certain parties at this end, who are working in direct opposition to each other, and consequently there is no stability in forward prices, which are jumping up and down for no satisfactory reason. Advantage has evidently been taken of the financial weakness in Japan, as the results of business, initiated in London at a low price (without apparently a direct offer from Japan in hand by the sellers), are immediately cabled to Japan, and have thus influenced sellers at a similarly low figure from that country. Thus is the price temporarily established, and Japan actually ships the goods, which identical parcels (of, say, five or ten cases) may be sold over and over again on the London market before shipment. Such tactics are, of course, quite permissible, but we do not think they would be resorted to if consumption was on a normal scale, and a considerable amount of irritation has been caused. No useful purpose would be served in quoting the various prices, as there was no stability about them. Actual business appears to have been done in January-March shipment at 11s. 6d. c.i.f., but at the close on Wednesday practically any position was quoted at 11s. 9d. c.i.f. The spot price is steady at from 14s. to 14s. 3d. per lb.

The imports of menthol into the U.S.A. during August 1930 were 12,360 lb. (\$39,801), against 16,060 lb. (\$65,447) in 1929; during the eight months ended August 1930 the imports were 201,887 lb. (\$691,523), against 174,859 lb. (\$765,181) for the corresponding period of 1929.

MERCURY.—The home trade demand is from hand to mouth. Official prices on the spot stand at £21 18s. 9d. net per bottle, and the f.o.b. quotation for shipment remains at £21 15s. for at least 25 bottles, with allowances made for large quantities. There is not much outside material offering, but a fairly good stock appears to be available for controlled metal. It is understood that at a meeting held recently in Paris by the Mercuro Europeo it was decided to retain prices as heretofore.

The imports into the U.S.A. for the eight months ended August 1930 amounted to 162,506 lb. (\$213,169), against 538,091 lb. (\$720,804) for the corresponding period of 1929.

PEPPER is quiet. Lampong is lower at from 7½d. to 7¾d. per lb. spot. To arrive, sales include August-October at 6½d. c.i.f., October-December at 6d., and January-March at 6½d. to 6¾d. c.i.f. Tellicherry for November-December shipment is 75s., and January-March 65s. c.i.f. Alleppy for November-December shipment is 62s., and for January-March shipment 59s. c.i.f. White Muntok is easier at 11½d. per lb. spot. To arrive, August-October shipment has been sold at 10d. to 10½d. to 9¾d., October-December at 9¾d. to 10½d. to 9¾d., and January-March at 9¾d. to 10½d. to 9¾d. c.i.f.

PIMENTO is quiet at 6¾d. on the spot and at 51s. c.i.f. for November-December shipment.

PLATINUM.—Prices are maintained at £6 10s. to £7 per oz. for refined, with a little more business doing. It is suggested that an understanding may be reached amongst producers to regulate sales and prices.

PSYLLIUM SEED.—As previously reported (*C. & D.*, September 13, p. 352), the plantings of psyllium seed in France for the present year were unusually large, principally because of the good prices which prevailed last year. Owing to rainy weather, the 1930 harvest took place later than usual and was only nearing completion the third week in September. Heavy storms in the producing areas were, fortunately, too late to do any serious damage to the crop. However, that part of the crop which had not been harvested at the time of the storms suffered some damage—damage which will affect the quality of that part of the crop rather than the quantity of the harvest as a whole. The present crop is considered as very good, and estimates from reliable sources place this year's French production at between 1,400 and 1,500 metric tons.

RUBBER.—The recent improvement has not been maintained, and prices have declined ¼d. per lb. since our last. The heavy buying reported last week on the part

of the French manufacturers has ceased for the time being, but against this, the home manufacturers have been buying fair quantities for delivery in the early months of next year. As anticipated, deliveries last week were exceptionally heavy, and easily constitute a record for the U.K. Last week 6,148 tons were delivered from the London warehouses, the previous largest delivery on record being approximately 4,000 tons. Arrivals totalled 1,410 tons, showing a decrease of 4,738 tons in the stocks. The London stock now stands at 77,480 tons, against 48,092 tons at the corresponding period last year. Quotations (Wednesday, 5 p.m.); No. 1 standard ribbed smoked sheet, spot and November, 4½d.; December, 4½d.; January-March, 4¾d.; April-June, 4¾d. per lb.

SEEDS.—**ANISE.**—Spanish is 51s., Bulgarian 37s. 6d., and Russian 31s. per cwt. on the spot. **CANARY.**—Mazagan on spot is quoted at 25s. spot. Tangier is offered at 24s. spot, and Morocco is selling in small lots at 23s. 6d. Turkish (2 per cent.) on spot is 20s. 6d., and for shipment 18s. 3d. c.i.f. is quoted. **FENNEL.**—Bulgarian on spot is quiet at 40s. per cwt. **MILLET.**—Morocco is offered on spot at 8s. per cwt. **CUMIN.**—Malta is quiet at 62s. 6d. on the spot. Morocco on spot has been sold at 54s. For shipment, Morocco is unchanged at 51s. 6d. c.i.f. **FENUGREEK.**—Old crop on spot is cheaper, sellers now offering at 18s. New crop is now 16s. 6d. on the spot. **CORIANDER.**—Old crop on the spot is offered at 9s. 9d., and new crop at 9s. 6d. spot. No business is passing. **CARAWAY.**—Dutch old crop on the spot is 32s. 6d., and new crop is quiet at 31s. **MUSTARD.**—English is 26s. to 33s. per cwt. according to quality. **DILL.**—Indian (11 per cent.) on spot is quiet at 21s. 6d. per cwt. **N.YOUTH** is unchanged at 10s. 6d. per cwt. ex store.

SHELLAC is easier at 90s. per cwt. for usual standard TN orange on the spot; fine orange is 105s. to 200s., pure button 110s., and AC cakey 100s. per cwt. To arrive, sellers of TN quote November-December shipment at 79s. December, January at 79s. 6d., and January-February at 80s. Sales for delivery include March at 83s. to 84s. to 80s.

SQUILL is in rather more demand at 22s. 6d. for good white.

TUBA ROOT is quoted at 1s. 1d. and crushed at 1s. 7½d. per lb., ex wharf.

VALERIAN.—Belgian new crop is offered cheaply at 34s. to 35s. per cwt. ex wharf, London.

Essential Oils

There has been a fair demand for small quantities. Citrus oils are tending easier for old crop oil. Star anise is easier. Java citronella is firmer.

ANISE (STAR) is easier, with "Red Ship" now offered at 4s. 2d. per lb. for leads in cases and at 4s. for tins in cases on the spot. To arrive, November-December shipment is quoted in leads at 2s. 8d., tins at 2s. 6d., and drums at 2s. 5d. per lb. c.i.f.

BERGAMOT is now offered at 8s. 11d. per lb. c.i.f. London, ex producers. On the spot, 9s. 6d. per lb. is quoted.

CASSIA remains easy at 3s. 5d. per lb. on the spot, and to arrive about 3s. 2d. c.i.f. is quoted.

CITRONELLA is firmer, Java being quoted at 2s. 3½d. c.i.f. and 2s. 3¾d. per lb. spot. Ceylon is 2s. 1½d. per lb. spot and 2s. c.i.f., but it is rather difficult to get forward offers.

GERANIUM.—Bourbon is without much inquiry, but the price is steady at from 16s. to 16s. 6d. per lb. spot. Algerian is quoted at 15s. 6d. per lb. spot and at the same price c.i.f. to arrive.

JUNIPER BERRY is firm at 5s. per lb. c.i.f. and 5s. 3d. per lb. spot.

LEMON.—Few orders having been cabled for new crop Sicilian, the price has declined about 6d. per lb. at the source, and the position has become interesting to a number of buyers. It is asserted that although prices may not be scraping bottom, yet they seem reasonably safe. On the spot, Sicilian hand-pressed old crop is offered at 3s. 6d. per lb., and machine-made at 3s. To arrive, hand-pressed new crop is quoted at from 3s. 5d. to 3s. 8d., and machine-made at from 2s. 11d. to 3s. 3d. per lb. Ex producers and c.i.f. London, genuine pure hand-pressed old crop is offered at 3s. 4d. per lb., and machine-made at 2s. 11d. per lb. c.i.f. It is estimated that the cost of labour for working up the fruit for the new crop oil will be increased, and owing to Sicilian producers needing money in order to work up the fruit, considerable quantities of old crop oil have been put on the market to raise the necessary capital, this causing a decline in price of old crop oil.

LEMONGRASS is quoted at 2s. 6d. per lb. spot and 2s. 5d. c.i.f.

MANDARIN.—New crop is offered at from 11s. 8d. to 12s. per lb. c.i.f. Old crop spot quoted at 14s. per lb., and to arrive, ex producers c.i.f. London is offered at 12s. per lb.

ORANGE.—West Indian finest selected sweet orange is offered at 7s. 6d. per lb. c.i.f. London. Sicilian orange new crop is quoted at from 7s. 6d. to 7s. 9d. per lb. c.i.f. On the spot, Sicilian sweet and/or bitter is quoted at 8s. to 8s. 6d. per lb. spot.

The domestic exports from the United States during August 1930 amounted to 3,630 lb. (\$8,161), against 719 lb. (\$5,082) in 1929; during the eight months ending August 1930 exports were 24,108 lb. (\$50,310), against 37,642 lb. (\$142,112) for the corresponding period of 1929. The imports of orange oil into the U.S.A. during the eight months ending August 1930 amounted to 125,656 lb. (\$285,174), against 136,635 lb. (\$642,359) for the corresponding period of 1929.

PEPPERMINT.—The spot price of Japanese dementholised is about steady at from 4s. 3d. to 4s. 4½d. per lb. Parcels due beginning of December are quoted at 4s. c.i.f., October-December shipment 3s. 10½d. c.i.f., January-February 3s. 7½d., and March-April 3s. 6d. per lb. c.i.f. American is quoted at from 9s. 6d. to 9s. 9d. per lb. on the spot as to seller, and at 9s. c.i.f. to arrive. H.G.H. is 14s. 9d. spot and 14s. c.i.f.

The exports of peppermint oil from the U.S.A. during August 1930 amounted to 24,237 lb. (\$56,277), against 11,639 lb. (\$39,571) in 1929. During the eight months ended August 1930 the exports were 145,531 (\$467,413), against 132,942 lb. (\$479,146) for the corresponding period of 1929.

ROSE.—The Chamber of Commerce and Industry of Plovdiv (Bulgaria) has invited representatives of the Ministry of Commerce, Agriculture, rose distillers, rose co-operatives, the union of the rose cultivators of Kazanlik and Karlowo, as well as all interested in rose culture or commerce, to attend a rose conference at Karlowo on November 16, when papers will be read and discussed on the improvement of the rose culture and commerce.

SASSAFRAS.—Genuine natural tin oil is quoted at 4s. 3d. to 4s. 6d. per lb. c.i.f.

SPEARMINT is unchanged at 13s. per lb. c.i.f. and at about 14s. per lb. spot.

SPIKE.—Spanish spike tends dearer because of the improvement in the peseta and owing to the short crop having been received by distillers, who are now asking from 10 to 15 per cent. more than they did at the time of the crop.

WORMSEED (CHENOPODIUM) is firm, but demand is not great. Spot sellers quote 17s. 6d. per lb. New crop production has shown a poor yield.

The following arrivals have taken place from the countries indicated during the period October 21 to October 28 (inclusive): Apricot (U.S.) 5 cs.; citronella (Cey.) 19 dm.; eucalyptus (Sp.) 2 cs., (Aust.) 40 cs.; geranium (Fr.) 3 dm., (Alg.) 5 dm.; hemlock (U.S.) 1 cs.; lavender (Fr.) 5 cs.; lemon (It.) 18 cs., (U.S.) 2 dm.; lime (Trin.) 1 cs., (Jam.) 14 cs.; orange (B.W.I.) 10 cs., (U.S.) 1 dm.; patchouli (Sey.) 5 cs.; peppermint (Ger.) 1 cs., (U.S.) 51 cs. 12 dm.; pimento (Jam.) 3 cs.; sandalwood (Aust.) 269 cs., (Neth.) 1 cs.; sassafras (U.S.) 1 dm.; spearmint (U.S.) 5 cs.; undescribed (Fr.) 12 cs., (Neth.) 1 cs., (U.S.) 10 dm.

Pharmaceutical Chemicals, etc.

A FAIRLY good volume of business continues in this section and prices for most items are steady, although there is still some cutting. Tartaric acid shows a good improvement, and cream of tartar is also slightly better. Sales prices for druggists' parcels have been revised, so far as regards salicylic acid and sodium salicylate.

ACETANILIDE is steady but in slow call: B.P. crystals and powder, 1s. 4½d. to 1s. 6d. per lb. as to quantity.

ASPIRIN.—A very fair business continues and controlled prices are being obtained in many quarters: home trade, 2s. 9d. to 2s. 11d. per lb. as to quantity; export to Colonies and British Possessions, ten cwt., 2s. 8d. up to 2s. 9½d. per lb. for small lots; export to other destinations, ¼d. to ¾d. per lb. more.

BARBITONE remains in slow demand and spot values are inclined to be unsteady at 7s. to 7s. 4d. per lb. as to quantity.

BENZALDEHYDE seems of little interest: quantities of f.f.c. on spot, in carboys, quoted at about 2s. per lb.

BROMIDES.—There is nothing new to report here; quoted prices are unchanged, while business is restricted in size: ammonium, 1s. 8½d. to 1s. 8¾d.; potassium, B.P., crystals, 1s. 4½d. to 1s. 5d.; granular, about 1s. 4½d.; sodium, B.P., 1s. 7d. to 1s. 8d. per lb. as to quantity.

CALCIUM LACTATE is unchanged on a steady market, with business moderate: quoted from 1s. 1½d. to 1s. 3d. per lb.

CHLORAL HYDRATE is a bright market and prices are fully held at makers' price of 2s. 11½d. per lb. for duty-paid crystals in boxes, and 3s. 0½d. per lb. in jars; smaller lots up to 3s. 1½d. per lb.; foreign on spot, 3s. 3d. per lb.

CITRIC ACID (B.P. crystals).—There is no improvement to record: foreign on spot and home make is freely offered at about 1s. 5d. to 1s. 5½d. per lb., less 5 per cent., as to quantity, with but very little business of importance moving. English makers quote 1s. 5½d. per lb. less 5 per cent.

CREAM OF TARTAR shows a slight recovery this week, with the tone much better and more inquiry: foreign on spot is now steady at 88s. to 89s. per cwt., less 2½ per cent., with an indication of a further appreciation. English makers quote 89s. per cwt., less 2½ per cent. discount for 99 to 100 per cent. powder.

CREOSOTE (B.P.) continues to be quoted on spot by dealers at 1s. 8d. to 1s. 9d. per lb. as to quantity.

CREOSOTE CARBONATE is unchanged, with the demand slow: quoted on spot at about 5s. 9d. to 6s. per lb. as to quantity.

GUAIACOL CARBONATE is dull, with dealers offering spot at about 4s. 4d. to 4s. 8d. per lb., as to quantity.

HEXAMINE shows no change, with a fair volume of business moving at keen prices: quoted from 1s. 10d. to 1s. 11½d. per lb. as to quantity, the lower price for minimum lots of one ton.

HYDROQUINONE is steady, but business is only small: quoted from 3s. 7½d. to 4s. 5d. per lb. as to quantity.

LACTIC ACID (B.P.) is unchanged at the controlled prices of 1s. 11d. to 2s. 1d. per lb. as to quantity and packing.

METHYL SALICYLATE (B.P.) continues in good demand, with prices steady at 1s. 3d. to 1s. 5d. per lb. as to quantity.

METHYL SULPHONAL remains dull, with dealers quoting spot at about 12s. 7d. to 13s. 10d. per lb. as to quantity.

MUSK XYLOL is offered at 6s. 5d. per lb. in one-lb. lots.

PARAFORMALDEHYDE is unchanged on a steady market, while business is fairly good: 100 per cent. powder, 1s. 6½d. for quantities up to 1s. 7d. per lb. for small parcels.

PARALDEHYDE is slow of sale, with spot offering from 1s. 1d. to 1s. 3d. per lb. as to quantity and packing.

PHENACETIN.—Controlled prices are unchanged for crystals at 3s. 8d. to 3s. 10½d. per lb. as to quantity, and 1½d. per lb. more for powder; occasional offers are at slightly lower rates.

PHENAZONE.—A moderate demand is reported, with controlled prices holding at 6s. 11d. to 7s. 3½d. per lb. for crystals, with powder 1½d. per lb. more. Some spot sellers are quoting a shade less.

PHENOLPHTHALEIN is steady on a quiet market at 5s. 11d. to 6s. 1½d. per lb. as to quantity. Slightly less would be taken for very large orders.

RESORCIN continues to be offered on spot at the controlled prices of 2s. 11d. to 3s. 2d. per lb. as to quantity; business is moderate.

SALICYLIC ACID (B.P.)—As the result of a meeting of home makers the scale of prices has been amended, so far as small parcels are concerned: quoted from 1s. 5d. for large quantities up to 1s. 7d. for 23 lb.; 1s. 8d. for 14 lb.; 1s. 10d. for 7 lb., and 2s. for 1 lb.

SODIUM SALICYLATE (B.P.)—Makers' prices for small quantities have been revised as follows: 23 lb., 2s. 1d.; 14 lb., 2s. 3d.; 7 lb., 2s. 4d.; 1 lb., 2s. 5d. per lb. for powder, with crystals 1d. per lb. more. Home trade prices for larger quantities are unchanged at 1s. 10d. per lb. for two tons up to 2s. for 1 cwt., with crystals 1d. more. Export prices are unchanged.

SULPHONAL is still in poor demand, with spot prices easy as quoted at 10s. 1d. to 11s. 2d. per lb. as to quantity.

TANNIC ACID (B.P. *leviss*) continues steady as quoted on spot from 2s. 8d. up to 2s. 10d. per lb. as to quantity.

TARTARIC ACID (B.P. crystals).—A much better report is to hand this week: the spot price has firmed up to 1s. to 1s. 0½d. per lb., less 5 per cent., for foreign. Foreign to arrive is firm at about 1s. 1d. per lb., c.i.f., less 5 per cent. The market has a much better tone and further advances on spot are anticipated. British makers quote 1s. per lb. for prompt delivery and 1s. 0½d. for forward delivery. Owing, however, to the position of the raw material, British makers will not accept business at current rates for more than a few weeks ahead.

TEREBENE.—The reduced price of 1s. 5d. per lb. is quoted by makers in lots of six w's.

THEOBROMINE.—The pure alkaloid is quoted at from 6s. 10d. to 6s. 11d., and sodium salicylate at from 5s. 3d. to 5s. 4d. per lb. as to quantity.

THYMOL is quoted at about 7s. 3d. to 7s. 6d. per lb. as to quantity, for synthetic fine white, but these rates are easy and would be shaded in some quarters.

VANILLIN is unchanged on a slow market: ex clove oil, 14s. per lb. in cwt. lots; ex guaiacol, 12s. 3d. per lb. in cwt. lots.

Industrial Chemicals, etc.

London, November 5.

A LIMITED but steady flow of business continues in this market and prices are fairly steady. Chlorates are weak. ACETIC ACID and ACETONE are unchanged. ARSENIC.—There has been a further steady advance owing to the growing scarcity of white Cornish in consequence of the shutting down of the tin mines, and the price f.o.r. mines now stands at around £18 7s. 6d., with but little offering. COPPER SULPHATE.—Further concessions were made by British makers, business now being possible at £20 15s. to £21 f.o.b. for casks, less 5 per cent. Purchases from the Continent, however, can be made at below these figures. Business is still on the slow side, despite a sharp recovery in the price of rough bar copper, which, however, is considered temporary. FORM-ALDEHYDE is moving in moderate quantities, with competition keen: 40 per cent. by volume, £31 per ton, in casks, ex store, and less for quantities. ISOPROPYL ALCOHOL is steady and business is about average: reliable quality, 10s. 6d. to 11s. 6d. per gallon, in drums, carriage paid; less for lower grades. POTASSIUM CHLORATE is very slow, with competition keen: quantities, £24 10s. per ton; smaller lots, about 3d. per lb., ex store. POTASSIUM PERMANGANATE is steady, although business is small: commercial quality, 43d. to 5d. per lb. in two-cwt. drums, ex store. SODIUM ACETATE is slow of sale and easy on spot in the region of £19 per ton, in casks, ex store. SULPHUR.—There is a regular demand for American crude at £5 12s. 6d. to £5 17s. 6d., while Sicilian flowers are quoted at £11 5s., refined ground at £10, and roll at £8 15s., all c.i.f. to arrive. COAL-TAR PRODUCTS, ETC.—Prices for carbolic acid crystals from makers show a good reduction this week. Other items are mostly unchanged, while business is only moderate. ANILINE OIL and ANILINE SALT are unchanged on a slow market at 8½d. per lb., packages extra, carriage paid. BETANAPHTHOL continues steady on a quiet market at 8d. per lb., carriage paid. CARBOLIC ACID CRYSTALS (39° to 40° C. ice crystals).—Makers have reduced their prices very considerably and the market remains rather slow: small parcels, 6½d.; five-ton lots, 5½d.; 20-ton lots, about 5½d. per lb., in drums with overcasks, carriage paid or f.o.b. Crude carbolic 60s., 1s. 6d. to 2s. per gallon naked at works. CREOSOTE OIL for export is moving a little better but at very keen prices: quantities in bulk f.o.b., 4½d. to 4½d. per gallon; home trade, 4d. to 4½d. per gallon, as to quantity and quality. NAPHTHALENE is dull and unsteady, with flakes and balls, ex wharf, about £13 10s. per ton, in cases. METHYL ALCOHOL is a keen market, with ton lots about £41 per ton, in drums, ex store; cheaper prices for large quantities. TOLUOL, XYLOL and PITCH are unchanged.

Fixed Oils, etc.

SOME items, such as palm kernel, palm oils and acid oils, have advanced slightly. Castor oil and linseed oil are easier. American turpentine is dearer on a better market. ACID OILS.—Quoted prices are well maintained, but business is dull: coconut and/or palm kernel, 23s.; groundnut, 21s.; soya, 18s. 9d. spot. CASTOR.—Prices for all grades are slightly easier on a dull market: pharmaceutical, 42s.; first pressings, 38s.; second pressings, 35s. per cwt., in barrels, on the spot, in not less than one-ton lots. COCONUT.—Prices show some improvement, but the market is slow: deodorised, on spot, 38s. 9d.; Ceylon, 25s. 9d. c.i.f. COTTON has remained dull, but values are slightly higher: deodorised, 35s. 6d.; common edible, 31s. 6d.; soapmaking, 28s. 6d.; crude, 26s. 6d. spot. GROUNDNUT.—Values are unchanged, with the market dull: deodorised, spot, 37s.; crude Oriental, 31s. 6d. c.i.f. PALM KERNEL.—Prices have advanced, with the market firm: deodorised, 37s. 3d.; crude, 28s. spot. PALM.—Values for all grades show a good appreciation this week and the market is fairly active, closing steady: Lagos, 23s. 6d.; softs, 23s.; mediums, 22s. 9d.; hards, 23s. 3d.; bleached, 26s. spot. RAPE remains dull and unchanged: refined, 34s. 6d.; crude, 33s. spot. SOYA.—Business has been slow, but values are maintained: deodorised, 35s. 3d.; crude, 24s. spot. LINSEED (raw, naked) has been dull most of the week and values are easier for all positions: on spot, 26s. 6d., November, 23s. 9d.; November-December, 23s. 6½d.; January-April, 22s. 4½d. Boiled oil on spot, 30s. 3d. TURPENTINE.—There has been a better tone, chiefly in sympathy with American cable advices and owing to a reduction in the receipts on the other side. Prices rallied appreciably from the lowest of last week, with spot standing at about 35s. 6d., December 35s. 9d., and January-

April at 37s. 6d. Last week's deliveries here were smaller at 1,518 barrels, this making the total since January 1 83,652 barrels, which compares with 84,283 barrels in the corresponding period of last year. Stocks were 36,725 barrels, which, including the quantities afloat and in the course of landing, make the total visible supply for London 38,949 barrels, against 33,505 barrels a year before. RESIN.—There has been a better tone in response to better American trade advices, and reports that receipts have fallen off somewhat. Demand has been more active and prices rallied all round, especially for the finer grades. C.i.f. quotations were as follows: B/D 11s. 1½d. to 11s. 3d., E 11s. 4d., F/I 11s. 6½d., K 11s. 7½d., M 11s. 11½d., W/G 16s. 0½d., and W/W 17s. 5d. French F/G stands at 10s. 10½d., W/G 11s. 9d., and W/W 12s. 3d. c.i.f. to arrive. WOOD.—Hankow on spot in barrels is offered at about 39s. per cwt., with little business moving. FRENCH OLIVE is 4s. 6d. per gallon for B.P. and 5s. for edible. Italian edible is 6s. 6d. net per gallon ex wharf, London.

LUBRICATING, MINERAL, BURNING OILS, ETC.—Lubricating oils are very slow of sale on spot and quoted prices are easy. Other products are mostly unchanged, while the volume of business remains poor. BENZOL is a better market and prices have advanced: standard motor, country, 1s. 4½d. to 1s. 5d.; London, 1s. 5d. to 1s. 5½d. per gallon ex works, in tank wagon. FUEL OILS and PARAFFIN OILS are steady. PARAFFIN WAX and SCALE.—Wax is dull and is offered from 1½d. to 4½d. per lb. according to melting point, in bags; scale is quoted for shipment at about £12 per ton c.i.f. U.K. port. WHITE OILS.—Business is still slow and quoted prices rather easy: special No. 1, £24 5s.; No. 1, £23 5s.; No. 3 half-white, £20; No. 4 half-white, £18 per ton, drums and barrels free, ex wharf. PETROLEUM JELLIES have remained quiet, with quoted values unchanged: white to snow-white, £36 to £45 10s.; amber and yellow, £18 to £22; dark stiff green, £10 12s. 6d. per ton, barrels free, ex wharf. LUBRICATING OILS are very dull. Crude oils are easier, while spot prices for refined oils are easy as quoted: on spot, pales, £9 12s. 6d. to £21; reds, £11 to £21; dark cylinders, £10 15s. to £24; filtered cylinders, £17 12s. 6d. to £26 per ton, less 2½ per cent.

Spanish Psyllium Seed

INCREASING interest was given to this product in Spain during 1929, shipments to the United States from the Seville area, which along with Malaga accounts for the bulk of the trade, having increased from 27,946 lb. (\$9,569) in 1928 to 208,541 lb. (\$40,051) in 1929. Smaller quantities were also shipped to England, France and Germany, although no record of statistics is available.

Abyssinian Civet

IN 1923 the output of civet in Abyssinia was reduced to a probable 20,000 oz., of which the United States took about half; previously the exports were estimated at from 30,000 to 40,000 oz. per annum. The average price was about U.S. \$1.92 per oz. in 1923. About the middle of 1923 demand slackened and prices declined. Natives began to lose interest and to release their captive animals. About the middle of 1929 there was a revival of interest, because the price was low, and the price advanced to about U.S. \$3 per oz. The 1929 exports approximated the 20,000 oz. volume noted for 1923. The full production capacity of civet in Abyssinia is not known, and may never yet have been reached. It is believed that considerably larger quantities could be produced if the price was favourable.

Java Cinchona and Coca Exports

THE following table shows the exports of cinchona and coca from Java during the period January-July 1930, compared with the corresponding period of 1929 (amounts in kilos):—

| | Cinchona | | Coca | |
|----------------------|-----------------|-----------------|-----------------|-----------------|
| | Jan.-July, 1929 | Jan.-July, 1930 | Jan.-July, 1929 | Jan.-July, 1930 |
| Great Britain .. | kilos 309,040 | kilos 458,658 | kilos — | kilos 21,774 |
| Belgium-Luxemburg .. | 21,020 | 39,198 | — | — |
| France .. | 219 | — | 10,374 | — |
| Germany .. | — | — | 29,601 | 34,921 |
| Holland .. | 4,246,430 | 4,188,296 | 352,624 | 204,496 |
| Italy .. | 32,447 | 59,574 | — | — |
| Japan .. | 443,770 | 171,467 | — | — |
| Philippines .. | — | 156 | — | — |
| Other countries .. | — | — | — | 54 |
| Total .. | 5,052,926 | 4,917,349 | 392,599 | 261,243 |

Exports of quinine from Java during the January-July period of 1930 were 32,625 kilos, against 13,787 kilos during the same period of 1929



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Draft Pharmacy and Poisons Bill

SIR,—You are giving us a fine lead. You deserve our congratulations and our gratitude. Let us look at the future. We shall (I hope and believe) fight hard for our rights and privileges and for a stemming of the tide that so persistently and insidiously threatens our financial interests. But, when all is said and done, we must prepare for certain inevitable encroachments and for some substantial diminution of our status. If this be granted, we must set about carrying the war into the enemies' country. Robbed here, we must recoup ourselves elsewhere. But how? First, "dispensing does not pay." Let us make it pay! Again, how? I suggest a general raising of prices. True, the multiple shops may not come into line; but in reply to that argument I would at least point out that the well-conducted private pharmacy has a prestige and a drawing power that the multiple shop does not possess. Verb. sap. In this connection I would suggest flat rates—for the sake of simplicity: 8-oz. mixture, 3ss. dose—so much; 5ij. dose—so much. Occasionally we should lose on expensive mixtures, but not often, and on the whole (and the whole alone matters) we should obviously gain. Secondly—and this is harder to initiate—the chemists of the country should combine to sell their own proprietary remedies, and, of course, to manufacture them and to advertise them lavishly and nationally. In this way the profits on "patents"—the manufacturers' profits, I mean—would flow into the retailers' own pockets and low-profit-bearing "patents" be, in part at any rate, displaced and (says optimism) driven, many of them, off the market. Thirdly—and this is the hardest task of all—we must aim at the limitation of the number of pharmacies, a consummation already achieved in other parts of the globe. Fourthly—to return to less difficult objectives—we must spread our net wider. If our territory is to be invaded (and it is) by non-pharmaceutical dealers at any increasing pace, we must invade other territory. This is a deplorable necessity; but "needs must, etc." Just what new territory we should set about conquering I leave for future discussion, for clearly some new jobs—new sales and new services—would blend with pharmacy better than others.—Yours truly,

R. CECIL OWEN.

Chester.

SIR,—A perusal of Mr. Humphrey's article upon the draft Pharmacy and Poisons Bill does not yield much light upon two of its very important clauses. In the first place, the clause relating to compulsory membership of the Pharmaceutical Society is very exacting in its provisions, and it should be amended or deleted altogether. Whatever may be said in favour of the proposal, it would be grossly unjust to remove any name from the Register of qualified chemists solely on account of non-membership, which has never been a condition of registration and cannot now be enacted without introducing a very dangerous principle into our legal procedure. Also the proposed annual fee of "not more than £3" for the registration of business premises is a gross imposition. No other shopkeeper who has not a complete monopoly of his trade has to submit to such a penalty. If it is proposed as a fee for dispensing medicines, then it should be collected from every dispensary in the kingdom, and not solely from the practising pharmacist. If registration and inspection of pharmacies is insisted upon, the cost of this should be borne by the imperial taxes and local rates, as in other cases,

such as D.D.A. regulations and Shop Hours Act, and not taken out of the pocket of the individual who is to be inspected, suspected, and possibly rejected. I should also like to know what the Society proposes to do with the money collected from these sources. An annual income of £5 from each of 5,000 shops will yield £25,000, plus the fees of registered pharmacists who are not in business on their own account. What is the trade to receive in return for this impost? Presumably nothing! not even a definition of the word "pharmacy." If the Bill provides for the collection of fees, it must be made to state for what purpose they shall be disposed of.—Yours truly,

A. J. HUNT.

East Dulwich, London, S.E.22.

Foreign Medicines in Prescriptions

SIR,—The International Pharmaceutical Federation has in hand the preparation of a book which will contain formulas of different national compound medicines which are widely prescribed. For example, it might contain among English formulas that for compound syrup of glycerophosphates or compound spirits of ammonia, which are preparations frequently met with in English prescriptions by pharmacists abroad. The book would contain similar preparations of other countries. The aim of the committee producing it is to make it as valuable as possible to pharmacists of every country who have foreign prescriptions to dispense in the ordinary course of their work. The value of such a book naturally depends upon the completeness with which it is prepared, and I have been asked by the president of the International Pharmaceutical Federation if I can have prepared a list of those foreign compound medicines most usually found in foreign prescriptions dispensed in this country. I should, therefore, be grateful if any pharmacists accustomed to dispense foreign prescriptions would send me the names of any compound preparations which they find frequently occurring in these preparations.

Yours faithfully,

HUGH N. LINSTAD.

Secretary, Pharmaceutical Society of Great Britain,
17 Bloomsbury Square, London, W.C.1.

Unit Packages

SIR,—As a wholesaler I was much entertained by "Krites's" letter of last week on the subject of the unit packages. I thought at first that singles were referred to, but soon gathered that the complaint was against the wicked manufacturer, who, not wishing to enter the retail trade himself, desires to confine his dealings to nothing less than 3-dozen, or shall we say 1-dozen lots, which naturally "does not commend itself to the retailer" who wishes to buy his $\frac{1}{2}$ -dozen or so on makers' best terms. "There is the wholesaler," says the manufacturer, "who is there for the purpose, and who will do what he can to oblige you." "But," says "Krites," "the wholesaler wants to live—he ought not, but he wants to—he asks for a profit, an exorbitant profit, even 10 per cent. or 12½ per cent.!" This affords the opportunity of saying a word which is badly needed. With extended and frequent motor deliveries, retailers have got into the way of ordering such small quantities as to make the trade a positive loss to the wholesaler on these items; $\frac{1}{2}$ and 1 dozens are now the exception; $\frac{1}{6}$ and $\frac{1}{12}$ dozens (yea, thousands of them) are being ordered in increasing numbers. Without going into full detail, if the retailer will consider that each item of $\frac{1}{12}$ dozen, say, of a 1s. 3d. article has, amongst other things, to be copied, taken from stock, checked, packed, carriage paid home, invoiced, the account collected, risk of breakage and returns, whilst the gross profit is 1½d., he will surely agree that each such transaction spells a loss. There is a remedy, of course, namely, that the charge for each $\frac{1}{12}$ dozen should be 6d. per dozen more—only ½d. each—and I have sufficient faith in the sense of justice and goodwill of the retailer to feel sure that he would not

only agree, but think that the proposal errs on the side of moderation. (In the old days when the medicine-stamp was 1½d., the stamp only—1½d.—was allowed on ½ dozen.)—Yours faithfully,

WHOLESALE (5/11).

Gift Schemes

SIR,—I have read Mr. Dodds's explanation of the two points which he says I have overlooked (*C. & D.*, October 25, p. 533); although I have carefully considered them I am afraid I cannot grasp the benefit to the chemist, but perhaps this is my fault. Point (1), by giving away a puff the chemist gets 50 per cent. profit on it; it seems to me that if I sell a box of face powder at 1s. and a puff at 9d., on the usual terms I should have a turnover of 1s. 9d. with a profit of 7d., but by selling the powder only and giving away the puff my turnover is 1s. and profit 4d., so that I am the loser of 3d. Point (2) is included in this. If it is a question of deciding between a price reduction and a gift scheme, then the argument fails by returning to the original price on the discontinuance of the gifts. It may be that afterwards the money saved can be allocated to increased advertising, but this could have been done before the free gifts as well as after, and it is quite possible that regular users will have taken advantage of the scheme to purchase several boxes, and they will be well stocked with both powder and puffs for some time, so that in any case the chemist loses the subsequent sale of puffs. With regard to the argument that compacts are sold including puffs, I think the answer to this is that compacts are intended to be carried in the handbag for outdoor use, and the small pads provided with them are not generally sold separately, while loose powder and larger puffs are for use at home. It is good to learn from Mr. Dodds that his goods are sold only through chemists, and in this respect they deserve our support.—Faithfully yours,

CASTANIA (3/11).

Pharmacy Week

SIR,—Mr. D. G. Douthwaite (*C. & D.*, October 25, p. 532) writes about Pharmacy Week and the use of the word "pharmacy" in this connection, and points out that this title can be used by anybody, whether a pharmacist or not; he therefore urges that we should drop it altogether and stick to the title of "chemist" only. Granted that at the present time many establishments under unqualified ownership adopt the title "pharmacy," that we are known to the public generally as "chemists," and that many of the ordinary citizens would be unable to state exactly what a pharmacist is; but it must be remembered that in the draft Bill there is a clause which would make it illegal for any unqualified person to use any wording which would lead customers to think that the premises were under qualified management. This is one of the few good points of the Bill; if it becomes law one loophole in the old Act will be stopped, and we shall come into the full use of a title which really belongs to us. From this aspect I think it would be a mistake to give up the use of it now, when it may be reserved to us in the near future.

Yours, etc.,

PHARMAKEM (3/11).

Costs in Advertising

SIR,—In his first article on "Advertising for the Retail Chemist" (*C. & D.* September 6, p. 317) Mr. H. A. Crowther divides the three great advertising mediums into three classes, and one of these he puts down as direct mail advertising. Whilst agreeing with him that the use of a 1½d. stamp and a sealed envelope is likely to create an unfortunate atmosphere in the prospective customer's mind, who is expecting to open a private communication, I should like to ask him if he will elaborate a little more the idea and methods of circularising by the halfpenny post. For a small chemist it seems to me that such a scheme is

likely to prove expensive, for 480 halfpennies go to £1; that is to say, one could circularise five streets of 100 houses each for that amount, and five streets would hardly make a small town; in the average suburb of to-day there must be many times five. Suppose there were fifty streets, the postage would cost £10 in addition to the printing, envelopes, and addressing; now how should such a district be circularised? Would Mr. Crowther advise taking a street or two at a time until the neighbourhood was covered and then starting again with a second issue, or would he recommend doing the whole town at once? I think it will be admitted that one effort alone is of very little use; even the big national advertisers who pay large sums for front pages of daily papers would admit that an isolated insertion does not cover the cost, so that a retail chemist who commences mail advertising will have to be prepared to keep it up at regular intervals. There is one point which must be noted in favour of postal matter, and that is the certainty of delivery, each envelope going to its proper address, which will probably not happen with any other form of circulation. I was pleased to see that he mentions church magazines as a medium. Their circulation may not be large in numbers, but they are generally read by the members of the congregation who take them, and, as a rule, these members support their own advertisers; at least, I have found it to be so, and usually the rates are not dear. Mr. Crowther also states that for an expenditure of 25s. it would be possible to have 100 double-crown posters displayed in central positions for a week. Does this amount refer to the cost of printing the posters or the rent of the spaces taken, or both inclusive? Another matter I should like to see discussed is the amount which ought to be laid out in advertising relative to the turnover. Although it must be to some extent dependent on the class of business and the locality there should be some average idea. I have heard it put at 5 per cent. of the returns. In a business with an annual turnover of £2,000 this would mean £100 a year, and in a varied experience as assistant and manager for a good many years I can safely say that not one of the businesses I have known have spent as much as this. The question is, could the business afford it and would it pay to do so?—Yours faithfully,

IVEASIDOR (13/9).

Drugs from Automatic Machines

SIR,—“Disgusted” asks (*C. & D.*, October 18, p. 501) why the English chemists have no redress, when hotel, restaurant and garage proprietors fulfil the part of chemists in supplying alcoholic tinctures, drugs and first-aid appliances. There are, I think, at least three answers to the question. First, any member of the British public is allowed to think that he can act as a chemist, and get the kudos without going through the mill. Secondly, pharmacy has not kept pace with the development seen in other professions: this is patent to anybody who takes the trouble to think, in spite of post-prandial embellishments of pharmaceutical orators. Thirdly, so many chemists among us are even pushing the goods into the general stores to the detriment of their colleagues, and the further humiliation of pharmacy. Now I wonder if “Disgusted” has read the “draft Bill” the cream of pharmacy legislation in the making? Here, in truth, he will not find the plain word “chemist” at all. The professional title of pharmacist is to be linked up with the worst appellation ever applied to a State-registered person, “authorised seller of poison.” Poison sales are in future to be conducted through a motley of great unqualified (though authorised) and chemists (that were). Fees for such authorisations, and subsequent inspections, will need to be levied on those who are to be privileged to do the selling. But the pharmacist will have to pay a further fee to retain his name on the pharmaceutical registers, and pay his quota on the rates as well.

Your faithfully,

PHARMACOPHILE (22/10).

Dispensing Notes and Difficulties

Quinine and Potassium Iodide

SIR,—I should be glad to know how to make a presentable mixture of the following:—

| | | | |
|-------------------|-----|-----|--------|
| Quin. hydrochlor. | ... | ... | 5ss. |
| Pot. iodid. | ... | ... | 5ij. |
| Vin. colchici | ... | ... | 3j. |
| Tinct. aurant. | ... | ... | 5ij. |
| Aq. chlorof. | ... | ad | 5viij. |

Yours faithfully,

A. J. H. (11/10).

[Quinine salts in fairly concentrated mixture will throw out the unsightly and sticky quinine iodide. This adheres to the sides of the bottle. The best method of dispensing the prescription is as follows:—Dissolve the quinine hydrochloride in four ounces of chloroform water, mix with this solution one and a-half ounces mucilage of acacia. Dissolve the iodide of potassium in an ounce of chloroform water, add the colchicum wine and tincture of orange and mix into the quinine-mucilage mixture. Make up to eight ounces. Use sufficient double strength chloroform water to make up for the mucilage used.]

Dangerous Incompatibility

SIR,—Below is a stock mixture which we make for a local doctor. Is there any possibility of strychnine being precipitated on keeping?

| | | | |
|----------------------|-----|-----|--------|
| Ferri et ammon. cit. | ... | ... | 5iiss. |
| Liq. strych. | ... | ... | 3ij. |
| Liq. Fowleri | ... | ... | 5iij. |
| Liq. ammon. fort. | ... | ... | 5iij. |
| Aquam | ... | ad | 5xx. |

Yours faithfully,

J. K. (13/9).

[This mixture is a dangerously incompatible one. The strychnine hydrochloride is bound to be decomposed and the alkaloid will be set free. The 20-oz. mixture contains $8\frac{3}{4}$ grains of strychnine hydrochlor. giving four-fifths of $8\frac{3}{4}$ grains of alkaloid; or about 7 grains. The alkaloid is soluble 1-7,000 of water. The 7 grains, therefore, requires 102 ounces of water to dissolve it. Only when a large percentage of the concentrated mixture is alcohol is it possible to exceed the water-solubility point. For ordinary dispensing if more than eight minims of liquor strychninæ is dispensed in the ounce of alkaline mixture, the alkaloid is liable to be precipitated.]

Legal Queries

R. G. (3/10).—Since the mouth wash contains zinc chloride it comes within Part II of the Poisons Schedule as a "liquid preparation of zinc chloride," and must, therefore, comply with the Labelling of Poisons Order.

B. R. (27/10).—The inclusion of the word "cough" in the title renders the syrup liable to medicine-stamp duty. The article apparently contains two scheduled poisons; consequently, it may only be sold by a qualified chemist, and it will be necessary for the label on the bottle to comply with the Labelling of Poisons Order.

G. T. W. (22/10).—You are under a misapprehension in assuming that arsenic and its preparations, when required for use in agriculture and horticulture, are excluded from Part I of the Poisons Schedule. On the contrary, when selling poisonous substances for use exclusively for agriculture or horticulture, and containing arsenic, tobacco or alkaloids of tobacco, whether sold by registered chemists or by licensed persons, the provisions of the Arsenic Act, 1851, the Pharmacy Act, 1868, and the Poisons and Pharmacy Act, 1908, must be observed. You will find this information on referring to *The Chemist and Druggist Diary*, 1930, p. 300, or "Pharmaceutical Formulas" (10th edition), p. 956.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

L. B. (16/10).—CAR POLISH.—This appears to consist of whale oil of good quality and nothing else. Careful comparison with such failed to discover the "volatile oil" suspected.

W. V. B. (14/10).—BOILER LOTION.—This is "used in a steam system of permanent hair waving. A small quantity is put into the steam generator." It is a white cloudy liquid; has a specific gravity 0.9816, corresponding to one-sixth part of rectified spirit, leaves less than 0.04 per cent. of non-volatile matter on the water bath. The cloud and the non-volatile matter appear to be due to a little aromatic oils, among which cedar appears to be a component.—VOLATILE REAGENT.—This is "used for damping the hair." It contains 16.3 per cent. of ammonia (NH₃) by weight; just one-half of liq. ammon. fort. and 0.64 per cent. of borax—that is, three grains to the ounce. It contains no other non-volatile matter. On neutralising with dilute sulphuric acid the odour recalls that of orris, to a trace of which drug the slight colour may be due.

A. R. P. (15/10).—BREAD IMPROVER.—Described as "for improving the texture and colour of bread." Calcium phosphate and persulphate are the two essential components; the latter appears to be present as the ammonium salt. A slight trace of iron was detected. There is a little organic matter, but apparently not of significance.

A. G. D. (31/8).—DOG SHAMPOO.—This is a nearly white powder consisting of soap (probably 30 per cent.), borax (probably 15 per cent.), and an inert powder of the Fuller's earth type (probably 55 per cent.).

S. P. (25/8).—STIMULANT FOR GREYHOUNDS.—This consists of a coarse vegetable powder, apparently partly cooked and somewhat massed together, which was not recognised. Tests for caffeine gave negative result, but there is a comparatively large quantity of capsicum or similar hot body.

R. H. B. (26/7).—POULTRY INSECTICIDE.—This belongs to a typical coal tar cresol class. The precise composition of the particular sample would be difficult to ascertain. It contains a notable quantity of iron and a heavy trace of zinc. In order to obtain supplies of similar material, application should be made to some of the coal tar distillers, from one of which the particular brand should become available.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," November 15, 1880

Mr. Swan's Electric Lamps

A lecture delivered before the Newcastle-upon-Tyne Literary and Philosophical Society by Mr. J. W. Swan, the well-known pharmacist, has excited profound interest. Twenty years ago he attempted to produce a light by the agency of carbonised card and paper. But in those days the Sprengel pump and the dynamo-electric machine were unknown, and perfect or nearly perfect vacua and cheap electricity could not be had. Three years ago, when Mr. Swan resumed his experiments, these conditions were at his command. . . . Small details, which we cannot describe, enabled the experimenter to reduce his carbon to a mere hair, a twentieth of the bulk of the smallest ever used before, using, therefore, a twentieth of the current, costing one-twentieth of the price, and still yielding as much light as the earlier lamps.



[Commenced C. & D., July 5, 1924]

Sumach.—Sumach is derived from *Rhus Coriaria*, Linn., a native of the European countries bordering the Mediterranean, the commercial supply being obtained almost entirely from plants cultivated in Sicily. Within the British Empire the only country producing sumach is Cyprus, but until recently its relation to the world supply was insignificant. In view of the great improvement effected in the quality of the Cyprus product during the last few years, that country now promises to become of importance as a source of sumach, though the amount produced must for long remain relatively small. The Sicilian product is stated to be produced from two distinct varieties of *R. Coriaria*, one of which, named "sommacco mascolino," is grown in the provinces of Girgenti and Trapani, and contains from 30 to 32 per cent. of tannin, whilst the other, termed "sommacco femminello," obtained from the east of the island, contains from 22 to 24 per cent. The product is exported chiefly in the form of a fine powder consisting of the ground leaves, leaf stalks, and thinner stems, and is sold as containing 25 or 28 per cent. of tannin. Most of the sumach collected in the island is sent to Palermo, where it is ground in stone mills of the edge-runner type; the process involves a system of sieving and the re-grinding of the coarser particles. During its preparation the material is submitted to the important process of purification termed "ventilation," which consists of blowing the material by means of a fan along the factory floor, so that the heavier mineral impurities and particles of metallic iron (derived from the grinding machinery) remain behind. Ground sumach is shipped in bags of 75 kilos. The unground leaves are also exported, compressed in bales weighing usually from 250 to 300 kilos., and are largely employed for extract making. Commercial sumach is frequently adulterated with the ground leaves of many other plants containing tannin, including other species of *Rhus*. The chief adulterant is *Pistacia Lentiscus* Linn., an evergreen tree which grows abundantly in Cyprus. Large quantities of the leaves of this tree, which contain 12 to 19 per cent. of tannin, are said to be annually exported to Palermo for this purpose. Sumach finds extensive employment in the light leather industry, and belongs to the pyrogallol class of tannins. It furnishes the best known tannage for white or light-coloured soft and supple leathers, and is therefore very largely employed in the tanning of roans, skivers, moroccos, glove, bookbinding and upholstery leathers. The tannin of sumach is of a non-astringent character, consisting mainly of gallo-tannic acid; the leather it produces does not darken on exposure to light, and has been shown to be more resistant to ordinary gas fumes, and less liable to general decay than those furnished by any of the more modern tannages. Sumach is found very useful for brightening leathers of darker tannages, such as wattle and gambier, and as it affords white or nearly white leather, such leather is especially suitable for dyeing. The world demand for sumach has fallen off since the war, the best markets being the United Kingdom, the United States, France and Germany. The present consumption in this country is about two-thirds of what it was before the war, the average annual amount of the imports retained for consumption during the five years ended 1913 being 163,551 cwt., as compared with 103,127 cwt. for the five years ended 1928. From the table showing in detail the imports of sumach into the United Kingdom for the five years 1924-28, it will be seen that British tanners are dependent for their supplies on foreign countries,

principally Italy, the amount produced within the British Empire being at present of no importance. The following tables show the imports into and the re-exports from the United Kingdom for the past five years. The average price for 1911-13 was £10 10s. per ton. A phenomenal rise in the price took place during the years 1924-25, but the price in 1928 had declined to £14 per ton :—

Imports

| From | 1924 | 1925 | 1926 | 1927 | 1928 |
|---------------------------------|---------|---------|---------|---------|---------|
| | cwt. | cwt. | cwt. | cwt. | cwt. |
| Tunis | — | 6,103 | 2,000 | — | 98 |
| Spain | 18,060 | 9,446 | 3,085 | 1,745 | 3,750 |
| Italy | 95,400 | 78,046 | 87,701 | 97,484 | 100,094 |
| Other foreign countries | 311 | 1,039 | 527 | 524 | 852 |
| Total from foreign countries .. | 113,771 | 94,634 | 93,314 | 99,753 | 104,794 |
| Cyprus | — | 170 | 8,184 | 5,755 | 1,280 |
| Other British countries | 7 | 452 | — | 2 | 17 |
| Total from British countries .. | 7 | 622 | 8,184 | 5,757 | 1,297 |
| Total | 113,778 | 95,256 | 101,498 | 105,510 | 106,091 |
| Value£ | 157,369 | 126,513 | 95,596 | 81,597 | 70,983 |

Re-exports

| To | 1924 | 1925 | 1926 | 1927 | 1928 |
|----------------------------------|-------|-------|-------|------|-------|
| | cwt. | cwt. | cwt. | cwt. | cwt. |
| Total to foreign countries | 170 | 522 | 1,269 | 363 | 983 |
| Total to British countries | 906 | 804 | 868 | 413 | 201 |
| Total | 1,075 | 1,325 | 2,137 | 776 | 1,184 |
| Value£ | 1,542 | 1,784 | 2,272 | 701 | 788 |

Sun-blinds.—Where it is desired to fit a new blind on to an existing front on which no provisions for the erection of a blind have previously been made, it is generally possible, in order to avoid the expense of structural alterations, either to fit a blind box over the fascia or else to arrange the roller in the angle of the entablature and the plate-glass, and to give it a reeded front lath, so that when drawn up it appears to be a decorative base for the entablature. In constructing shop-fronts to-day, however, it is the general rule to arrange the position for the blind at the same time. The blind rail usually forms part of the cornice, and the sun-blind, window-blind, and fascia are all component sections of the upper portion of the framework. The by-laws and local regulations in regard to the erection of sun-blinds on retail shop premises vary in different localities; but it is the blind maker's rather than the trader's business to make himself familiar with these. At the same time any information which the chemist can furnish is helpful, and, if he still has in his possession the original plans of the shop-front, it is as well to let the blind specialist have a full-sized tracing of each section of the cornice. If chosen from a catalogue or list the number of the pattern or design should also be stated clearly. Other particulars which would be helpful to the blind designer are: height from the pathway to the place of fixing the blind, width of shop-front, width of pathway, and colour and size of letter and design on blind. Although regulations vary in different districts, it may be taken as a good general rule that the height of the bottom of the blind from the pavement should not be less than seven feet when it is pulled down and the blind when extended should not reach to more than within six inches of the width of the pathway, so as not to overhang the kerb. In Britain the blinds are generally made of sailcloth or linen tick, or heavy flax canvas in drab or pale colouring, and such materials are usually more in keeping with the style of the average shop-front. Where ordinary throw-out blind-arms are used it is possible to weld them into the general design of the shop-front by giving them a heavy coating of bronze or gun-metal and supplying them with decorative shoes, hinges, or sleeves of the same material. Modern sun-blinds work on spiral springs, similar to those used for inside window blinds, and these are fitted to the metal barrels to which the blind is attached. The blind boxes in which these fit

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tings are placed are usually self-contained boxes of seasoned deal fitted with loose front mouldings in deal, hardwood, or metal drawn on wood cores. These boxes are usually zinc-lined, as protection against damp, and are arranged with a slope to prevent water accumulating, and thus causing the springs and fittings to become rusty and corroded. On many modern shop-fronts blinds of the lattice type are now used. With the growing practice of fitting the blind arms at transome level, these lattice or trellis arms are generally found more suitable; for blinds fixed at this level are frequently thrown out a wider distance in proportion to the height of the blind boxes from the ground than are those blinds fixed above the fascia, and the ordinary blind arm, apart from its other disadvantages, cannot often be constructed to throw the blind out to the distance required for such shop-fronts. Another improved device is an arm which doubles up under the blind lath, and enters and leaves the box with the blind.

Sunblinds, Projecting.—The occupier of a shop which has a sunblind, sign or other fitting overhanging the roadway should see that it is securely fixed, at a proper height. If as the result of negligence in this respect, on the shopkeeper's part, the blind or sign falls upon a passer-by or injures him in some other way, the shopkeeper will be liable to pay damages to the injured party. Should a person be injured in this way, it will be a question of fact for the decision of the Court whether the shopkeeper had taken adequate precautions to prevent such an occurrence. In many districts, local by-laws regulate the use of sunblinds, and the like.

Sunflower Oil.—This oil is obtained from the fruits of the common sunflower (*Helianthus annuus*), which is cultivated chiefly in Mexico, South Russia, China, and South Africa. The fruits are about 1 cm. long and vary in colour from white to black or brown. About 45-50 per cent. of the fruit is the oleaginous seed, of which the oil content is 40-50 per cent. The oil is a clear pale yellow liquid resembling olive oil, and has the following characters:—Sap. value, 190 to 194; refractive index at 40° 60-63; iodine value, 125-140 (Wijs); s.g., 0.924 to 0.926; free fatty acids, 1.0 to 5.0 per cent. (as oleic; m.p. of fatty acids, 20° to 32°; unsaponifiable matter, 0.5 to 0.8 per cent. These figures are all for oil from black seeds. Samples of oil from white seeds are found with an iodine value of 106 and a refractive index of 58. The oil is chiefly used as a salad oil, and for margarine. In this country its use is limited. The non-fatty portion is widely used as a feeding cake, and has a high nutritive value. Sunflower cake has the following analysis:—

| | Whole fruit Per cent. | Husked Per cent. |
|-----------------------------|--------------------------|---------------------|
| Moisture | 7.10 | 7.75 |
| Oil | 7.43 | 10.03 |
| Albuminoids | 19.01 | 37.00 |
| Digestible carbohydrates .. | 28.93 | 21.14 |
| Woody fibre | 30.03 | 16.53 |
| Mineral matter | 7.50 | 7.55 |

The stalks and leaves when burned yield an ash rich in potash, which is a valuable fertiliser.

Superintendent.—The term used in the Poisons and Pharmacy Act, 1928, Sec. 3 (4), to designate a person controlling and conducting the business of a body corporate, firm or partnership trading as chemists, whose name is registered by the Pharmaceutical Society of Great Britain under the provisions of the Act. Such a superintendent may not act at the same time in a similar capacity for any other body corporate, firm or partnership.

Superphosphate is the most popular product used in fertiliser practice, and about 700,000 tons are used every year in the United Kingdom alone. It is prepared chiefly from phosphate, of which very large deposits exist. The raw material is first ground and intimately

mixed with an approximately equal weight of sulphuric acid. The water-insoluble tri-calcium phosphate is thus converted into water-soluble mono-calcium phosphate and calcium sulphate. Bones are used to a minor extent as raw material, and the resulting product is termed bone-superphosphate. As placed on the market, superphosphate contains from 30 to 35 per cent. of water-soluble phosphate. Though not ideal, this product provides the plant with its needs of phosphoric acid in a most assimilable form, and about 13.14 million tons are used annually in the world's agriculture. An average dressing is three or four cwt. per acre, and as its action is chiefly to promote root development, superphosphate is applied mainly to potatoes, turnips, mangolds and beetroots, though it is also used extensively for cereals. It is recommended that where superphosphate is employed continuously periodical applications of lime should be made to the soil in order to counteract the tendency towards acidity. In 1926 an International Superphosphate Manufacturers' Association was formed for propaganda work. Suitable phosphates are found in Florida, South Carolina, Canada, North Africa, West Indies, Belgium. They are rendered soluble by treatment with sulphuric acid. The finely ground phosphate mineral is mixed with moderately strong sulphuric acid and the fluid mixture poured into a brick or concrete chamber, where the temperature rises and the mass solidifies. It is then mechanically broken up, ground and screened, any other ingredients, such as ammonium sulphate, being added during the process of grinding. Superphosphates containing oxide of iron or of aluminium are liable to become "reverted" during storage, due to re-formation of tri-calcium phosphate. Superphosphates are valued on the content of the so-called "dissolved phosphate." This is the tricalcium phosphate, $\text{Ca}_3(\text{PO}_4)_2$, equivalent of the phosphoric anhydride, P_2O_5 , present in a soluble form. Ordinary qualities of superphosphate contain about 25 per cent. of dissolved phosphate, equivalent to about 12 per cent. of P_2O_5 ; better qualities may contain up to 40 per cent. of "dissolved phosphate."

Supertax.—To simplify income tax, supertax has been superseded by surtax (q.v.). Liability for super tax arose when the income for the year of an individual exceeded £2,000. For the purpose of assessing this additional tax the financial year was the same as the income-tax year—i.e., April 6 one year to the following April 5—and was calculated upon the income of the preceding year. For example, 1928-29 year would be assessable on the income for 1927-28, and would be payable on January 1, 1929. The rate at which supertax was payable was upon a graduated scale on the next £500 over £2,000, commencing at 1s. 6d. in the £ up to £3,000, thereafter on the next £1,000 of income up to £10,000 at an increasing amount of 6d. in the £ per £1,000. Above £10,000 the rate was further increased. It was found that private companies afforded a measure of avoidance to supertax, as the law stood. The Finance Act of 1922 made provisions applicable to the undistributed profits of private companies, and further amendments followed in Sections 31 and 32 of the Finance Act, 1927.

Supreme Court of Judicature.—Under this heading are included the Court of Appeal and the High Court of Justice, the latter consisting of (1) the Chancery, (2) the King's Bench, and (3) the Probate, Divorce and Admiralty Divisions.

Surgical and Allied Trades Association.—Formed as the outcome of a meeting of members of the surgical and allied trades held in London on April 18, 1928. The Association represents importers, wholesalers, dealers and retailers of medical, surgical, scientific, dental, optical, and veterinary instruments and appliances, druggists' sundries, and hospital furniture and accessories. The first chairman was Mr. Mark C. Rimmer. The Association meets at 80 Fenchurch Street, London, E.C. The annual subscription is £3 3s.

Surgical Spirit.—See Spirit, Surgical.

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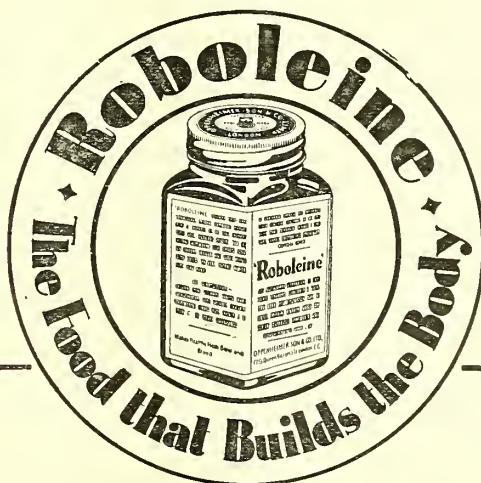
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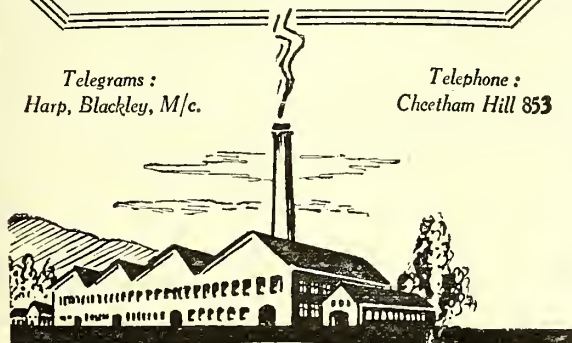
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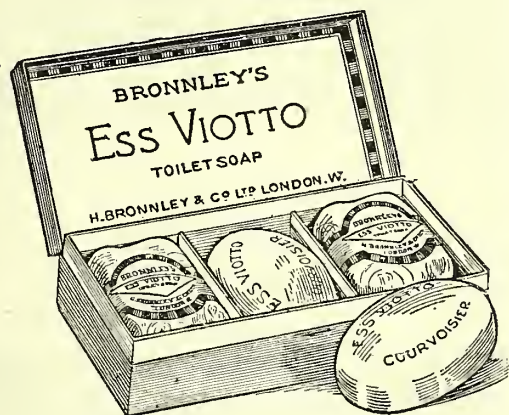
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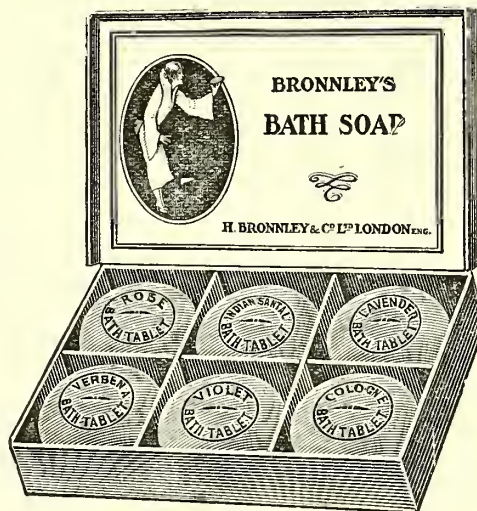


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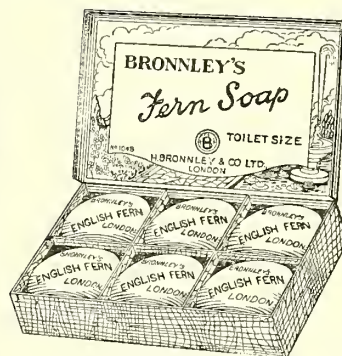
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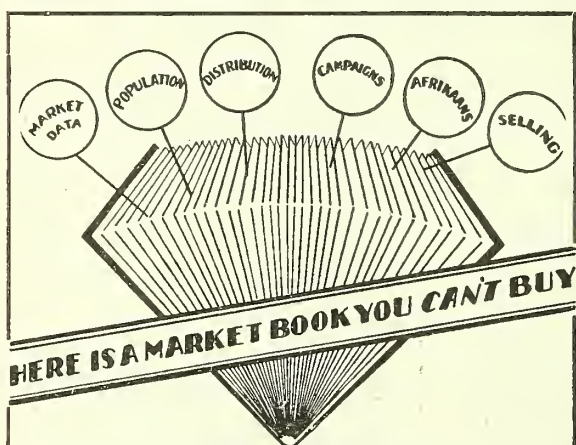
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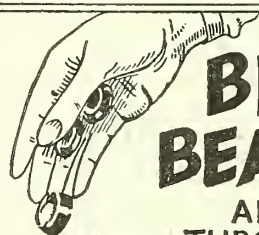
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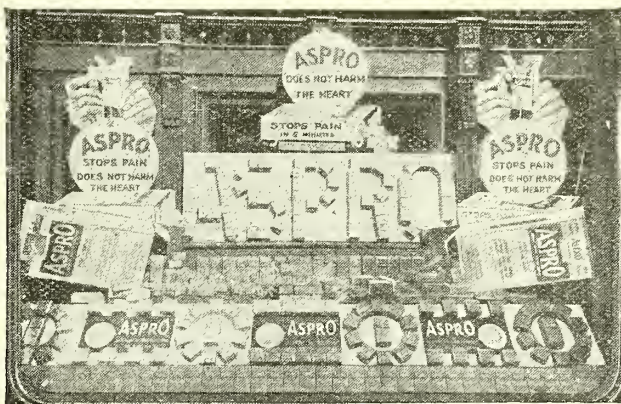
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Less 2 1/2% 30 days.

NOTE.—The 1s. 3d. size contains 2 extra tablets. The 2s. 6d. size 10 extra tablets.

'ASPRO' consists of the purest Acetyl-Salicylic Acid that has ever been known to Medical Science and its claims are based on its superiority.

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KILLS THE GERM AND INSTANTLY EASES THE COUGH.
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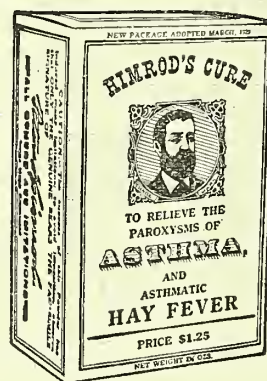
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ON THE 1/3 SIZE AND 1/- PER BOTTLE ON
THE 3/- SIZE.**

TERMS : Minimum order sent out £5 value, Monthly Account. All orders can, if desired, be made up with other Beecham-Veno Lines, but the special bonus discount of 10% is only allowable on the amount of VENO'S LIGHTNING COUGH CURE

included in each order. Packages free, carriage paid.

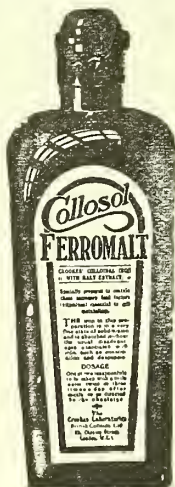
ADVERTISING CAMPAIGN : A big advertising campaign is just commencing and will be continuous until next May. You should take advantage of the big bonus offer and stock sufficient supplies of Veno's Lightning Cough Cure to last you the winter.

Place your order through your wholesaler or send it direct to the

**BEECHAM-VENO CENTRAL DISTRIBUTING DEPOT,
Veno Buildings, Chester Road, Manchester**

COLLOSOL FERROMALT

(CROOKES)



Daily increasing in popularity with both the medical profession and the public. Collosol Ferromalt is now supplied in an attractive packing, admirably adapted for counter display.

Collosol Ferromalt gives a satisfactory margin of profit, and the assurance of complete satisfaction to your clients.

TERMS AND PARTICULARS FROM

THE CROOKES LABORATORIES

(BRITISH COLLOIDS, LTD.),

22 CHENIES STREET, LONDON, W.C.1

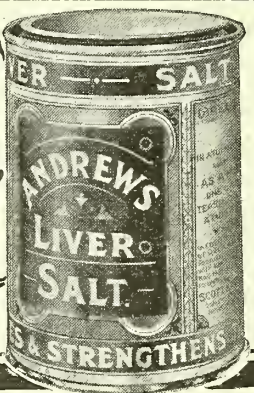
Telephone Nos.:
Museum 3663, 3697, 5737.

Telegrams:
"Collosols, Westcent, London."

**THE MOST SUCCESSFUL
IRON TONIC on the
MARKET.**

Export Distributing Agents, **AYRTON, SAUNDERS & CO., LTD., LIVERPOOL.**

*The Saline
with the
largest sale
9s. & 1/4.*



The DeVILBISS CO. Ltd.

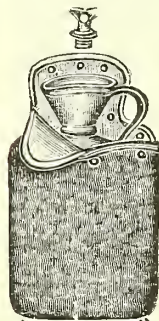
*Will be pleased to forward one of their NEW
ILLUSTRATED CATALOGUES OF
PERFUME SPRAYS
TO YOU UPON APPLICATION*

EVERY CHEMIST SHOULD HAVE ONE

WRITE—

The DeVILBISS CO. Ltd.

WEST DRAYTON, MIDDLESEX, and
27 OLD BOND ST., LONDON, W.
GERRARD 6867.



HEWLETT LONDON
Open.

THE "CHARLOTTE" (Regd.)

HOT-WATER BOTTLE COVER

"Its novelty consists in the cover which encloses the stopper completely."—
British Journal of Tuberculosis.
"Accidents certainly happen with some frequency through the employment of uncovered bottles."—*The Lancet.*

THE ONLY SATISFACTORY HOT-WATER BOTTLE COVER ON THE MARKET.

| | Best Quality. (Velour) | 2nd Quality. (Plushette) | | Best Quality. (Velour) | 2nd Quality. (Plushette) |
|----------|---------------------------|-----------------------------|---|---------------------------|-----------------------------|
| 8×6 in. | 20/3 | 12/- doz. | 12×8 in. | 25/- | 16/- doz. |
| 10×6 in. | 21/6 | 13/- " | 12×10 in. | 26/- | 18/9 " |
| 10×8 in. | 23/- | 15/- " | To fit the moulded hot-water bottle, size 11 1/2"×8" | | |
| | | | | Velour 26/- doz. | Plushette 18/9 doz. |

Supplied in pink, blue, peach and grey.

MANUFACTURED ONLY BY

C. J. HEWLETT & SON, Ltd., 35/42 Charlotte St., London, E.C.2



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Normo-Gastrine

THE NEW REMEDY FOR :: INDIGESTION ::

Neutralises excess of acidity in 20 minutes without alkaline reaction or evolution of Carbonic Acid gas thus avoiding unpleasant symptoms of distention and "fulness."

Satisfied customers are your most valuable assets—Normo-Gastrine increases them daily. Wins all the time by sheer merit.

SHOWS 100 PER CENT. PROFIT

POWDER

P.A.T.A. 1/3 10/- dozen

TABLETS

P.A.T.A. 1/6 12/- dozen
2/9 20/9 „ less 25%

Counter display boxes :: Powerful window screen

Sample sufficient for 2 weeks' trial free on application

BURGOYNE BURBIDGES & CO. LTD.

Manufacturing Chemists

LONDON E.6

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PURE RUSSIAN LIQUID PARAFFIN MEDICINAL B.P.

ALL GRAVITIES.

HIGHEST VISCOSITY.

PURE RUSSIAN "JASMINE" BRAND WHITE OILS

CHEMICALLY PURE. WATER WHITE. ODOURLESS.
FOR MANUFACTURING PURPOSES.

Competitive Prices. Best Quality. Immediate Delivery.

THE PURE RUSSIAN LIQUID PARAFFIN CO., LTD.
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Telephone: LONDON WALL 7132-7133.

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PETROLEUM JELLY
(*"SALVO PETROLIA"*)
BRAND

THE PERFECTION OF PETROLEUM JELLY
MANUFACTURED SOLELY BY

THE DEE OIL CO. LD.

**D 23 & 24 EXCHANGE BUILDINGS
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**PACKED IN BARRELS KECS OR
SMALLER PACKAGES IF DESIRED.**

OTHER GRADES OF
PETROLEUM JELLIES WHITE BASES ETC.
WHITE OILS B.P. & Technical Qualities
SAMPLES & PRICES ON APPLICATION

OLEUM DEELINÆ (DEE OIL)
THE UNFAILING CURE FOR ECZEMA.

OILS

OLIVE OIL
CREAM SUBLIME
& B.P. QUALITIES
OIL B.P. COTTON
OIL B.P.C

DISTILLED WATER in perfect condition
from our own stills. Large plant providing
quantities for immediate despatch to all parts

We solicit your enquiries
for drysalteries generally

FRANCIS F. FOX & CO LTD
BRISTOL & BIRMINGHAM.
ESTABLISHED OVER 100 YEARS

"ATLAS" PATENT SIFTERS & MIXERS

Combined or Separate Machines for hand or power.

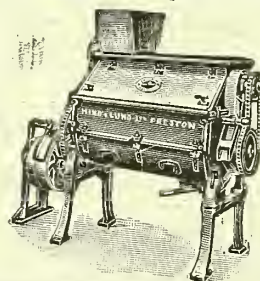
Fitted with all our
latest improvements.

**BALL and PEBBLE
GRINDING MILLS.**

Various Sizes.

**HIND & LUND,
LIMITED,
ATLAS WORKS,
PRESTON.**

Established 1791.



THE TWO KINDS OF MONSOL SOAP

The Antiseptic Toilet Soap contains 1 per cent. of the active principle of Monsol. It is suitable for regular toilet use, being an attractive green colour, and pleasantly perfumed. The wrapper is "silvered" and printed in red and black, with the name as follows:—

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The Medicated Soap contains 5 per cent of the active principle of Monsol. It is brown in colour, and has been specially prepared for the Medical and Nursing Professions. The wrapper is identical, but for the name, which is:—

MONSOL MEDICATED SOAP

For the treatment of Skin Complaints and on Medical Prescription, the Medicated Soap should always be supplied.

Each 8d. per Tablet Retail.

MONSOL DISTRIBUTING AGENCY
168/172 Drummond Street, London, N.W.1

EVERY WINTER BRINGS AN INCREASE



in the demand
for
Snowfire

It's a case of one customer making many, where the Snowfire Tablet is concerned. This magic little tablet is a real friend to the skin in winter, soothing chapped hands, making work-roughened hands smooth and white again, softening dry, cracked lips. And the Snowfire Tablet is always so well advertised, too. Display it prominently this winter—brisk sales and good profits will result.

Snowfire TABLET

Made by: **F. W. HAMPSHIRE & CO. (1927) LTD.**
Sunnydale Works, Derby.

AGENTS: India: Messrs. Siqueira & Son, 121 Fort St., Fort, Bombay.
Australia: Messrs. Salmon & Spraggon (Australia), Ltd.,
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Canada: A. Whitelchurch Little, 507 The Wilson Building,
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U.S.A.: F. W. Hampshire Corporation, 882 Harrison
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Dr. BENGUE'S BALSAM

1/3 & 3/- per tube

NOW is the moment to lay in a stock of this ever popular

WINTER LINE

BECAUSE for a limited period we offer you 13 to the dozen for a 14-day window or counter display.


New attractive showcard and display box sent with all orders.

BONUS TERMS can be obtained either direct or through your

USUAL WHOLESALER

BENGUE & Co., Ltd. Manufacturing Chemists
24 FITZROY ST., LONDON, W.1

Products of the
BATTLE CREEK
FOOD CO.,
Michigan, U.S.A.



TWO IMPORTANT LAXATIVE FOODS

PSYLLA
A FOOD
FOR CHANGING THE
INTESTINAL FLORA

LACTO-DEXTRIN
A FOOD
FOR CHANGING THE
INTESTINAL FLORA

Lacto-Dextrin, a food for changing the intestinal flora, 12 oz. packings 4/-, 5 lbs. 22/-—Psylla, intestinal vegetable lubricant, 10 oz. packings 4/-, 5 lbs. 24/-—Both these foods are being regularly advertised to the Medical Profession throughout the year. Liberal discounts. Order through your wholesaler or write direct to:

Wholesale & Distributing Agents for United Kingdom & Irish Free State:
COATES & COOPER
41 GREAT TOWER ST., LONDON, E.C.3

*Unsolicited Testimonials
and REPEAT ORDERS
are flowing in for*

Reglo

THE PUREST SAFEST and
SUREST CORRECTIVE FOR ALL
DISORDERS OF THE SYSTEM

Small size 6d. Family size 1/- P.A.T.A. Terms

SUPERFINE CHEMICALS, LTD.
22 BUCKINGHAM GATE, WESTMINSTER, LONDON, S.W.1

MASON'S GINGER WINE ESSENCE

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LIBERAL WINDOW DISPLAY
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Apply—

NEWBALL & MASON
LIMITED.
NOTTINGHAM

PURE SPANISH
GRAPE JUICE



MOSTELLE

MADE BY RAFAEL ESCOFET
IN TARRAGONA (SPAIN)

Pure unfermented
juice of ripe
grapes. It is a
wholesome, nour-
ishing drink, with
all the properties
of fresh grapes.

PRICES:
**GOLDEN
MUSCAT**
Large bott. 3/6
Small bott. 2/3
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Large bott. 3/-
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Stocked by
John Bell & Co. Ltd.
50-52 Wigmore St., W.1
MAPLETON'S Food
Co., Ltd. Garston, Liverpool

New Unstamped SCOTT'S EMULSION for Sale on Prescription



Under the new dispensing concession and with the permission of the Commissioners of Customs and Excise, we are now supplying Scott's Emulsion unstamped for sale entire on a doctor's prescription. In accordance with our P. A. T. A. obligations we have fixed the minimum retail price at 4/- and 2/6 for the large and medium sizes respectively. Bought on our best terms at 32/9 and 20/9 per dozen this shows an increase of profit from 25% to 31% on turnover. Smaller quantities of unstamped Scott's Emulsion than those obtainable in unbroken cases may be ordered through your Wholesaler in the usual way.

SCOTT'S EMULSION

For steady sales this winter.

ESTABLISHED 1793.

The Best and Safest Infants' Medicine of over 130 years' standing.

**ATKINSON & BARKER'S
INFANTS' PRESERVATIVE**

Does not contain any Scheduled Poison.

ROBERT BARKER & SON, LTD., 13 WESLEY STREET, G. on M., MANCHESTER

Season—1930



Agent for Scotland:
ANDREW STEVEN,
7 York Street, Glasgow

COD LIVER OIL

GUARANTEED GENUINE. FINEST PURE LOFOTEN.

Manufacturers:

BRØDR. AARSÆTHER A/S, Aalesund, Norway.

LARGEST MANUFACTURERS OF COD LIVER OIL IN NORWAY.

SPECIALITY—Cattle and Poultry Feeding Oils.

Stocks always held in London.

In 25-gallon tin-lined barrels.

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Codes used: ABC, 4th and 5th Edit., Bentley's, and Private.

RUBBER SPONGES

"Victor" RUBBER SPONGES

OUR "VICTOR" Rubber Sponge has for many years been acknowledged to be the ideal sponge for toilet use.

Its special feature is the fine texture and smooth surface, a result achieved by special selection of the best quality durable rubber, and our own methods of technical control and manufacture.

SIX SIZES, OVAL AND ROUND.

BRITISH THROUGHOUT

Write for particulars, or order your requirements from your regular wholesaler. We also specialise in RUBBER SPONGE FLOORING, MATS, SHEETS, HOT WATER BOTTLES, HOSPITAL SHEETINGS, ETC.



"FOR LONG SERVICE"

The IOCO RUBBER & WATERPROOFING CO. LTD.
Netherton Works, Anniesland, Glasgow, W.3.

"STERAID" Regd. Dressings

Patent No. in Great Britain 221761/1924 and patented in all the principal foreign countries.

Patent Rotating Canister packing to retain aseptic conditions. In use, only the amount required is withdrawn and cut off. The remainder is not exposed.

GAUZES.

| | Minimum Public Prices Each | | | Minimum Trade Prices Per Doz. | | |
|---------------|----------------------------|---------|--------|-------------------------------|-------|-------|
| | 6-yd. | 3-yd. | 1-yd. | 6-yd. | 3-yd. | 1-yd. |
| Sal Alembroth | | | | | | |
| Sublimate | 2/3 | 1/3 1/2 | -8 1/2 | 20/3 | 11/6 | 6/4 |
| Carbolic | | | | | | |
| Boric | | | | | | |

| | Minimum Public Prices Each | | | Minimum Trade Prices Per Doz. | | |
|-----------------|----------------------------|-------|-------|-------------------------------|-------|-------|
| | 6-yd. | 3-yd. | 1-yd. | 6-yd. | 3-yd. | 1-yd. |
| Plain Absorbent | 2/- | 1/2 | -8 | 18/- | 10/6 | 6/- |
| Double Cyanide | 2/6 | 1/5 | -9 | 22/6 | 12/9 | 6/9 |
| Pieric | 3/- | 1/8 | -10 | 27/- | 15/- | 7/6 |
| Iodoform | | | | | | |

LINTS. PLAIN and BORIC.

| | Min. Public Prices | Min. Trade Prices |
|-----------|--------------------|-------------------|
| | Each | Doz. |
| 2in. wide | 1/3 each | 11/3 doz. |
| 4 " | 1/9 " | 15/9 " |
| 6 " | 2/3 " | 20/3 " |

Approx. 6 yds. Plain and 4 yds. Boric

ORDER THROUGH USUAL WHOLESALE.

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Wires: "Undisputed, Stockport."



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A VERY EFFECTIVE
FORM OF ADVT.
SPECIAL DESIGNS
SUBMITTED.

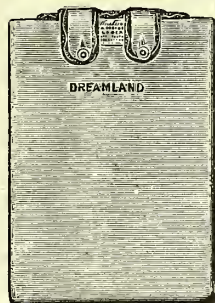
SQUEAKERS,
DYING BOARDS,
SWANS, BIRDS,
ELEPHANTS, &c.

WHOLESALE & EXPORT
ENQUIRIES INVITED.
WE ARE ACTUAL MANUFACTURERS

JOSEPH HARRIS & COMPANY
RUBBER WORKS, BROADHEATH, ALTRINCHAM.

HOT WATER BOTTLE COVERS

FOR A WARM XMAS GREETING



"DREAMLAND."

H14a VELOURS COVERS

ARE STILL THE STANDARD
OF EXCELLENCE AND VALUE

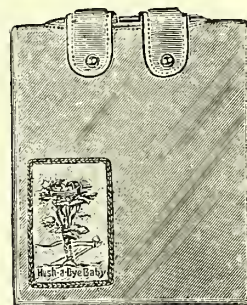
SEND AT
ONCE FOR
OUR NEW
ILLUSTRATED
LIST
containing
full
particulars.



"MAYFLOWER."

STILL
FURTHER
REDUCED
PRICES.

ALL
BRITISH
MATERIAL.



"NURSERY RHYMES."

ARTIFICIAL SILK COVERS
IN A WIDE RANGE OF SOFT
PASTEL SHADES. Each in Cellophane

SPECIAL-
NOVELTY COVERS

IDEAL FOR PRESENTATION.
SEE SPECIAL LIST.

FROM ALL
WHOLESALE

SPECIFY "SOLPORTS' MAKE."

IF UNABLE TO OBTAIN
FROM YOUR USUAL
WHOLESALE WRITE US
DIRECT.

SOLPORT

BROTHERS LIMITED

REPEAT ORDERS EVERY POST

for the
LOCARNO MEDICATED
TOILET
ROLL

WHY!!!

BECAUSE it is ONLY OBTAINABLE
FROM THE CHEMIST

CONTAINS
650 SHEETS
PURE WHITE
SULPHITE
PAPER.
12 oz. ROLLS.

COSTS
3^d.
SELLS at
6^d.

FREE
DELIVERY.
PACKED IN
CARTONS.
SAMPLE
ROLL FREE.

Sole Manufacturers:
J. RUTHERFORD & Co.
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VICTORIA PAPER MILLS
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HOLLOWAY, LONDON, N.7
Contractors to H.M. Government.

Best sellers

The
public is asking
for **ZEAL**
CLINICAL

THERMOMETERS
because they are:-
GUARANTEED TO
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CONSISTENTLY
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Made by
ZEAL

-the name the
public knows.

G. H. ZEAL, LTD.,
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**ROBINSON'S of
CHESTERFIELD**
for
**CARDBOARD
BOXES**
ROUND · OVAL · SQUARE · FOLDING
ROBINSON & SONS LTD.
CHESTERFIELD & LONDON

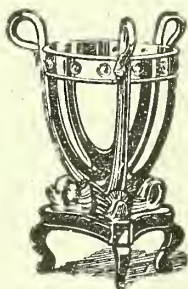


BEADED BOXES
The boxes illustrated above are finding increasing favour amongst chemists. They are dust-proof and air-tight and of a very attractive appearance. Fitted with a flanged metal lid which is easily lifted out they form a very useful container. Blank panel on reverse side for printing in Customer's name and address.

ROBINSON & SONS, Ltd.
Manufacturers of ROUND, OVAL, SQUARE AND FOLDING CARDBOARD BOXES.

CHESTERFIELD

*In the last
5 years
the sales of*



TOWN TALK
LIQUID SILVER POLISH
& SILVER PLATE CLOTH
have increased
3 Fold

Get your share of the
trade by ordering from

JAMES WOOLLEY SONS & CO., Ltd.,
Manchester
AYRTON, SAUNDERS & Co., Ltd., Liverpool
BROOKS & WARBURTON (American Drug
Supply Co.), Ltd.

Town Talk Polish Co.
Whitby St., Bradford Road, Manchester



REGISTERS.

Dangerous Drugs Act.

Morphine Diamorphine (Heroin), Cocaine,
Ecgonine, Medicinal Opium, Indian
Hemp, Dihydro-Oxycodine and
Dihydrocodeinone Register, 48 pages, 4/-

Ditto, for Doctors' use, 48 pages, 4/-

Raw Opium Register, 16 pages, 3/-

Morphine Register, 48 pages, 3/-

Cocaine Register, 48 pages, 3/-

Medicinal Opium Register,
48 pages, 3/-

Larger size for Wholesale Trade. Prices on application.

Spirit.

For records of Spirit used in manufacture, to claim
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Methylated Spirit.

For Records of Purchases and Sales of Methylated
Spirit in accordance with Order which came into
operation February 1st, 1926. 42 pages, Ruled,
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All these are 8 x 5, oblong, and Quarter-bound.

JAMES TOWNSEND & SONS,
CHEMISTS' PRINTERS, EXETER.
LONDON OFFICE: 54, FARRINGDON ST., E.C. 4

Are you getting YOUR share?

Are you getting your share of the big profits that are being made by selling the popular TROJAN HIGH FREQUENCY ELECTRICAL OUTFITS? They are being strongly recommended by Health and Beauty Specialists all over the country.

When you sell a TROJAN Outfit you give your customer every satisfaction and make a profitable sale. If you do not already stock this quick-selling line, write us now for particulars of our Scheme for selling 20 Sets a week.

JOHN SHAW & SONS WOLVERHAMPTON LTD

(Established 1795)

Head Office and Works - - - WOLVERHAMPTON

Telephone: Wolverhampton 1001.

Telegrams: "Shaw Wolverhampton."

London - - - - - 29 Shoe Lane, E.C.4

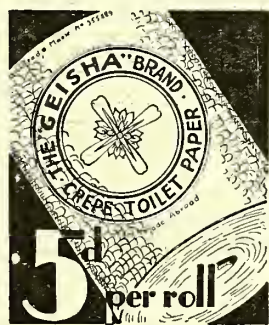
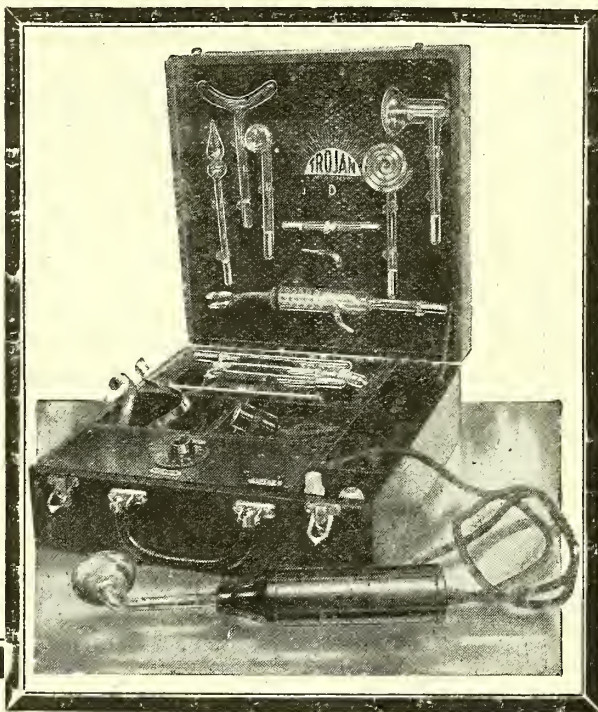
Telephone: Central 1814.

MANCHESTER - - - 5 Orme Buildings, Parsonage

Telephone: Blackfriars 1365.



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very soft
strong and
soluble

famous for a quarter
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geisha
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Fits standard holder. Perfectly perforated. Full Standard size. In fine wooden cases containing 144 rolls.

Write for Sample Roll & Prices to:

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12, Farringdon Avenue, E.C.4.

phone: central 3140

DISPLAY NORVIC

(Regd.)
BLUE **CARTON**
CRÊPE **BANDAGES**

NORVIC
CRÊPE BANDAGES
UNIVERSALLY RECOMMENDED FOR
VARICOSE VEINS
WEAK ANKLES
LEGS
KNEES
WRISTS
SPRAINS
AND
GENERAL SUPPORT.
Specially suitable for support in all sports.

P.A.T.A. Prices

| | 2" | 2½" | 3" | 3½" | 4" |
|------|------|------|------|------|------------|
| Cost | 12/- | 15/3 | 18/3 | 21/3 | 24/3 dozen |
| Sell | 1/6 | 1/11 | 2/3 | 2/8 | 3/- each |

Stocked by all the leading wholesalers
Sole Manufacturers:
Grout & Co., Ltd., 35, Wood Street, E.C.2.

CORNER'S OILS

The GREAT remedy for
Accidents and Animal Ailments.

Protected Retail Price - - 2/9 per bottle.

Wholesale - - - - - 24/- per doz.

P.A.T.A. Nett 1 month.

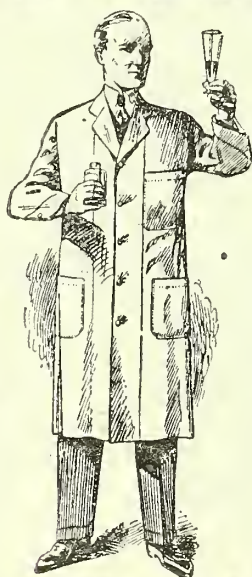
Carriage Paid on 3 dozen Lots.

EVANS, GADD & CO., LTD., having the
sole proprietary rights in the above excellent
and well-known article, are prepared to appoint
Agents on liberal Terms.

For Window Show Terms, apply to

EVANS, GADD & CO., LTD.
REDCLIFF STREET, BRISTOL, and FORE STREET, EXETER.

OVERALLS



SEND FOR NEW ILLUSTRATED LIST

Jackets and Coats of very
superior quality, made
from the most reliable
materials, smartly cut
and thoroughly well
finished in every detail.

WHITE DRILL JACKETS
6/11, 8/11, 10/6

KHAKI DRILL COATS
6/11, 8/6, 10/6, 12/6, 14/6

WHITE DRILL COATS
7/6, 9/6, 12/6, 13/6, 15/6

BLACK DRILL COATS 15/6

GREY COTTON COATS 7/6

STOCK SIZES: 34 to 44
chest. Special pockets and
little adjustments can be
made without extra charge.
POSTAGE on single coat 9d.,
but 20/- orders upwards
carriage paid.

**SPECIAL PRICES FOR
LARGE QUANTITIES**

GARDINER

& CO. (The Scotch House), LTD.
1, 3, 5 Commercial Road, LONDON, E.1

Telephone : Bishopsgate 6751.

Established 1839.

BATTLE'S PROFITABLE LINES

specialty packed for the Trade

STOKALIN

A SURE REMEDY

for all kinds of

FEVER and INFLAMMATION in COWS
and CALVES, SHEEP, PIGS, HORSES

COW or UDDER SALVE

LAMBING OILS

CARBOLISED OILS

EMBROCATION (Household,
Footballers', Vety.)

LYSOL DISINFECTANTS

Large Profits. Special own name packing.

Write to :—

**BATTLE, HAYWARD & BOWER
LINCOLN**

GLASGOW PHARMACIST is "AMAZED"..

Gentlemen, Please hurry the attached repeat order, as I have just refused 2 + 1/2 tins of your '92 Ointment. I am delighted at the sale of your preparations, having had previous experience of other brands of 'Dog Remedies' which I could not sell. Indeed they have been in stock over 12 months. I am amazed at the immediate success of your lines, and am gaining customers who were previously going into the city for them. I can assure you I will always keep Bob Martin's remedies well to the front. Yours faithfully, Bob Martin Ltd.

at sales of
Bob Martin
dog preparations

"gaining customers who were previously going into city."

WE think every Pharmacist will wish to read this letter. The writer states:—

"Please hurry the attached repeat order, as I have just refused two 1s tins of your '92 Ointment. I am delighted at the sale of your preparations, having had previous experience of other brands of Dog Remedies which I could not sell. Indeed, they have been in stock over 12 months. I am amazed at the immediate success of your lines, and am gaining customers who were previously going into the city for them. I can assure you I will always keep Bob Martin's remedies well to the front."

One-third of the people who pass and enter your Pharmacy are dog owners who have become ready buyers of Bob Martin's dog preparations, as a result of the consistent educational advertising which Bob Martin Ltd. have maintained in the people's newspapers. You have only to let your customers know that they need go no farther than your Pharmacy, and sales are certain and consistent. For that reason, we provide a range of display material which covers every individual requirement, including a three-piece screen, a counter card 6 in. by 4 in., leaflets, dummy display outers, and a 32-page booklet.

These sales-aids are available, of course, whether you obtain your supplies direct or through your wholesaler.



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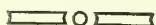
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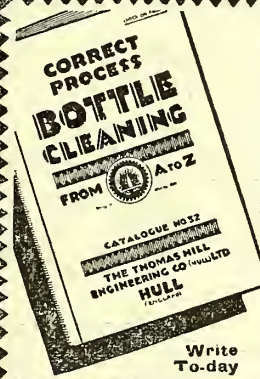
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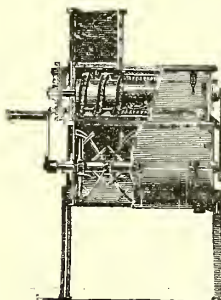
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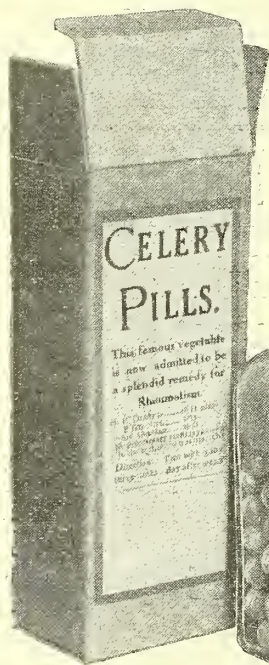
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28 ESSEX ST.
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NOVEMBER 8, 1930

This Supplement is inserted in every copy of The Chemist & Druggist.

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2.—HAMMERSMITH.—General Retail and Dispensing Business for disposal; returns about £25 weekly; neglected; scope for increase in hands of younger man; 2 flats over, which have been sub-let at £100 p.a.; long lease; price £850, or offer.

3.—FINCHLEY ROAD (Near).—Good-class Retail and Dispensing Business, with Kodak Agency; established many years and in present hands ten; returns last year exceeded £2,600; gross profit £934; double-fronted shop, well fitted and stocked; price, to include property, about £2,575, £1,100 of which is in respect of property.

4.—KENT (Few Miles Out).—Medium-class Retail and Dispensing Business, with Kodak Agency; returns, present rate, £23 weekly; scope for increase; stock and fixtures worth about £500; rent £100; sub-let £65; price £500, or valuation terms entertained.

5.—SLOANE SQUARE (Few Minutes From).—Good-class Retail and Dispensing Business, with Kodak Agency; established 20 years; returns £34 weekly, increasing rapidly; double-fronted shop, well fitted and stocked; rent £80; long lease; price £1,200, or valuation terms entertained.

6.—EAST COAST (Health Resort).—Cash Drug Store, with Confectionery; no Drugs or Photographic at present; immense scope for same; returns last year £2,405; gross profit about one-third; double-fronted shop; well fitted and stocked; 40 ft. frontage; modern house; bathroom, private and back entrances; garden; new lease; valuation terms and part-payment entertained.

7.—BOURNEMOUTH.—General Retail Business, with Kodak Agency; returns last year £1,450, present rate slightly less; scope for large increase under energetic management; lease will be granted or premises may be purchased; price £1,000, or valuation terms entertained.

Messrs. O. & Co. desire to emphasize the necessity of a periodic Statement of Account by which means alone Profit, the Value of Business, &c., can be determined. Involving as this does the labour of stocktaking and Valuation, it is often omitted and eventually becomes confusion and loss.

8.—NORFOLK (Death Vacancy).—General Retail and Dispensing Business, with Kodak Agency; at present under management; very old-established; returns present rate £2,500 per annum, have been £3,000; good living accommodation; long lease; stock and fixtures £1,150; valuation terms entertained.

9.—SOUTH COAST.—Good middle-class Business, with Optical connection, returns last financial year £3,200, with gross profit £1,440; double-fronted shop, with living accommodation over; freehold may be purchased or lease will be granted; terms, valuation of stock, plus an agreed sum for goodwill and fixtures; the position is a very fine one, and offers scope for increase; ill health cause of sale; purchase price in neighbourhood of £3,000.

10.—CORNWALL.—Retail and Dispensing Business, with Kodak Agency; very old established; returns £2,160; net profit approximately £500; scope for increase; stock and fixtures £1,150; double-fronted shop; held on lease; price £1,400.

11.—CHESHIRE.—Light Retail Business, with N.H.I. and Kodak Agency; returns last year £942, with net profit £252; single-fronted shop; good living accommodation; stock and fixtures estimated to be worth £250; price, to include property, £800.

12.—WEST RIDING.—Good-class Retail and Dispensing Business, with Kodak Agency; returns £45-£50 weekly; gross profit one-third; large corner shop, well fitted and stocked; price £1,050.

13.—SOUTH WALES (Seaside).—Good middle-class Cash Retail Business, with Kodak Agency; returns about £2,300 per annum; under management of lady; scope for large increase; double-fronted corner shop; stock and fixtures worth about £1,100; good living accommodation; 16 years' lease; rent £3 weekly; terms, valuation of stock and fixtures, plus £200 for goodwill.

14.—NORTHERN CITY.—General Retail and Dispensing Business, with Kodak Agency; very old established; returns last year £1,132; single-fronted shop; stock worth about £400; 6-roomed house with private entrance; rent £45 per annum inclusive; price £700, or value of stock and fixtures, plus £100 for goodwill; part payment entertained.

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3.—**MANCHESTER.**—Old-established Retail Business for quick disposal; yearly tenancy; rent £150; returns for the last 40 years average over £50 weekly; at present returns are £35 weekly; nicely fitted and good stock; Wine and Spirit Licence; living accommodation. (48)

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BIRMINGHAM.—For Sale, urgent, very old-established neglected Chemist's Shop, with Kodak Agency; owing to unforeseen circumstances owner must sell immediately, and is prepared to sacrifice goodwill; shop occupies a very good position, and is capable of doing big figures. Apply 280/25, Office of this Paper.

BLACKPOOL (Near).—To Chemists: Your last chance to secure Modern Pharmacy in growing district on advantageous terms for property, etc.; recently established; double-fronted; corner; Kodak; living accommodation, nine rooms; separate entrance; returns average between £15 and £14; season double; increasing; must sell; family reasons and unforeseen circumstances; price approximately valuation; fittings, etc., £275; stock at valuation; low rates; property, £1,850 (quick transfer); worth £2,500; mortgage obtainable; N.H.I. wanted; Optics useful. Other details, 12/35, Office of this Paper.

EASTERN COUNTIES.—Chemist Business, established over a century, for Sale on account of death of late proprietor; takings for 1930 will exceed £2,500; old-fashioned shop with two windows; 5 rooms over the shop; side entrance; 21 years' lease; there is one very good Proprietary having a steady sale; price and further information from "J. W. B.," c/o 178/350, Office of this Paper.

HOME COUNTY.—Village Business; established 2 years; good pharmacy; no side lines; £1,700 turnover, increasing each month. £360 net profit, audited; healthy part; large garden and orchard; freehold, £1,000 (8 rooms, bath, main drain, water and gas), £500 stock, £250 fixtures, £350 goodwill; Panel and Optics could be added to the business. 11/18, Office of this Paper.

KENT (About 30 Miles London).—Good-class Business; prominent position in growing town; London Road; large double-fronted shop; vendor owns property; lease granted; paying concern under manager (very little opposition); price one year's average returns, upwards £1,100; immediate sale arranged; authentic particulars. 12/12, Office of this Paper.

LONDON, E.—Old-established Branch; returns over £1,200 per annum; large Panel; Kodak Agency; well stocked; excellent opening for Optics; rooms above let off to Dentist; 14 years' lease; rent £60; sub-let £52; price £750. Apply 11/59, Office of this Paper.

LONDON.—Well-established Business, Dispensing and Optical; entirely cash; well fitted; good lease; price £2,000, plus s.a.v.; in present hands since premises were built 5 years ago; continually growing. Further particulars at interview. 178/354, Office of this Paper.

NORTH LONDON.—Cash Drug Store with Photographic; returns, under the management of a lady, approximately £26 per week; good profits; no N.H.I.; scope for same; living accommodation; reasonable rent; long lease; price £700. Apply "S. V. B.," c/o 178/351, Office of this Paper.

NOTTING HILL, LONDON.—Established high-class Family Business; low rent; good lease; living accommodation if desired; profit £600 per annum; scope for Optics; price £1,700, or offer, including stock and fixtures value approximately £900. Apply Preston & Partners, Valuers, 29 Ludgate Hill, E.C.4.

A UNIQUE opportunity occurs to secure a high-class Business in Central London through retirement; turnover between £6,000 and £7,000 yearly, stands to do £10,000; handsome modern pharmacy, held on valuable lease; applicants with £5,000 at command can have further details on receipt of banker's reference. Apply "Retiring," 178/349, Office of this Paper.

CHEMIST'S Business for Sale, with the property (North-East C. county); suit beginner; returns about £24 per week, including N.H.I.; price for freehold property £700; stock and fixtures at valuation; lock-up corner shop. 11/15, Office of this Paper.

DRUG Store, East End; big chance for young, qualified man; N.H.I.; turnover £900 per annum, increasing; 40 per cent. profit; rent 16s.; all at, £350. Whiting, 16 Stanwick Road, Kensington, W.14.

GOOD main road position; Pharmacy, Central London; doing Surgical and Family trade; last year's returns approximately £2,000 at excellent profit; chartered accountant's figures; great scope for development; shop excellently fitted; six rooms over; held on lease; personal reasons compel sale; business valued at £2,000; first reasonable offer accepted. Inquiries to P.C.B. 6/28, Office of this Paper.

TO LET, Chemist's Business at Cwmlllynfell, Swansea Valley. Particulars, apply Jones, Brynawel Stores, Cwmlllynfell.

PREMISES TO LET.

UNIQUE opening for Chemist; nearest shops to 6,000 houses. To Let, imposing Shop Premises, with basement, adjoining Burnt Oak Tube Station. Details from Penney, Springfield, N.W.9 Phone: Colindale 6664.

BUSINESS OPPORTUNITIES.

CITY OF BIRMINGHAM.—Chemists of enterprise are afforded the opportunity of acquiring at nominal amounts, Two Pharmacies offering excellent scope for extension and development. The opportunities are exceptional, but owing to additional interests, the present owner has been unable to take anything approaching full advantage thereof; the businesses are at present under qualified management, and being situated in the centre of the city, the rents are naturally high, but the turnovers are substantial, and could, without doubt, be considerably augmented. The businesses may be acquired, either jointly or separately, at real "Bargain" figures, the respective amounts of which are £575 and £850 respectively. Every facility for investigation will be granted, and interested and ambitious pharmacists are invited to write for further particulars to

ERNEST J. GEORGE, 'Tudor House,' Walsall

TENDERS INVITED.

NOTTINGHAMSHIRE COUNTY COUNCIL.
TENDERS FOR MEDICAL, SURGICAL AND DENTAL SUPPLIES.

TENDERS are invited for the supply of Medical, Surgical and Dental Goods to the several centres in the county.

Particulars as to description and quantities of goods which it is probable will be required, and Forms of Tender, may be obtained upon application (accompanied by a stamped addressed envelope) to the County Medical Officer, Shire Hall, Nottingham.

Sealed and endorsed tenders should be delivered to the Medical Officer of Health aforesaid on or before the first post on Monday, the 24th November, 1930.

The County Council does not bind itself to accept the lowest or any tender.

By Order, TWEEDALE MEABY,

Clerk of the County Council.

Shire Hall, Nottingham.

October 1930.

BUSINESSES WANTED.

BERDOE & FISH are urgently in need of Businesses returning about £3,000 upwards, particularly in London, Home Counties and the Coast; cash buyers waiting to take immediate possession; quick sales negotiated privately. Correspondence cordially invited. Transfer Offices: 41 Argyle Square, King's Cross, W.C.1. Phone: Terminus 3574.

CHEMIST seeks small business in London or within 40 miles' radius; takings £1,000 to £1,500, capable of increase; reasonable rent; cash available, or would manage with view to early succession; at liberty. Full details (in confidence), 10/38, Office of this Paper.

CHEMIST'S Business required, returning about £3,000 to £4,000, but smaller considered if offering good scope for increase; southern half of England preferred; all replies will be treated in strict confidence; cash waiting; bank reference. Reply to 11/32, Office of this Paper.

NORTH LONDON (or a Few Miles Out).—Middle-class, with N.H.I.; turnover £30 to £40 per week; living accommodation; part cash and period payment terms preferred. Particulars to 12/17, Office of this Paper.

PHARMACIST, with capital, desires to acquire a working interest. Partnership or Directorship, in well-established and first-class firm of West-End Chemists; has had 10 years' sound experience; prepared to invest up to £5,000. Apply P.C.B. 5.6, Office of this Paper.

PHARMACIST desires Business, North London or Eastern side England, returning £3,000-£4,000; part cash, part mortgage; security ensured; with house if possible. 11/40, Office of this Paper.

YORKSHIRE.—Sound Chemist's Business wanted in Yorkshire for spot cash; must be profitable concern, with good turnover and preferably with large N.H.I.; good price paid for the right business; would also consider management with view to early succession. Full particulars (in confidence) to 272/29, Office of this Paper.

WANTED, good-class Dispensing and Prescribing Business (with Kodak and Optics preferred); good modern house with garden; East or South Coast, but inland not objected to. Give, confidentially, first letter, location, turnover, net profit, price and general particulars, chartered accountant's figures, please; cash available now. "Seeker," c/o 11/31, Office of this Paper.

WANTED by Pharmacist, small Business; part cash and period payment preferred, or would manage with view to early succession. Full particulars in confidence, 12/40, Office of this Paper.

PARTNERSHIPS.

MANUFACTURER of Toilet Preparations seeks Partnership where small capital and practical experience would be a mutual advantage. P.C.B. 5/29, Office of this Paper.

PATENTS.

THE Proprietor of British Patent No. 258,704, dated July 18, 1925, relating to "Improvements in a Process for Making soaps having an Oily Material as one of the Ingredients," is anxious of entering into arrangements by way of a Licence otherwise on reasonable terms for the purpose of exploiting the above patent and ensuring its practical working in Great Britain. All inquiries to be addressed to B. Singer, Steger Building, Chicago, Illinois.

APARTMENTS.

BED-BREAKFAST.—Highly recommended private house for Commercially representing Wholesale Druggists and Druggists' Sundries Houses; trams pass door. Winship, 7 North Face, Newcastle-on-Tyne.

SITUATIONS OPEN.**RETAIL (HOME).**

AYLESBURY.—Unqualified Assistant, male, 25 to 35, required for Dispensing and Light Retail; Counter knowledge of Photographics desirable; permanency. T. M. Ashford, 16 Market Square, Aylesbury.

BAKE DISTRICT.—Wanted, young, qualified Assistant for Family and Agricultural business; others kept; good opportunity for smart man; hours 48 per week. Full particulars in letter to: F. W. Boon, Wholesale and Retail Chemist, Kendal, Lancashire.

BONDON, N.—Junior (unqualified) required for good-class Retail and Dispensing; reliable, accurate and obliging. State age, experience, salary required, and enclose to (if possible); outdoors or indoors. L. A. James, 47 Windmill Hill, Enfield, N.

BONDON, E.—Qualified Assistant required for N.H.I. Dispensing; elderly man would suit; easy hours. Apply, stating age, experience, salary required, to 11/9, Office of this Paper.

BONDON, W.—Manager, qualified, age about 30 to 35, must be thoroughly reliable, smart Salesman, Dispenser and Window-dresser, with several years' experience in good-class business; married; to live on premises. State age, experience and salary; London or near for interview. "X," 13/2, Office of this Paper.

BONDON, W.C.—Qualified man (25-35), also a Junior (20-25); good West-End experience; smart Salesman; permanency; doors. Apply, giving full particulars, age, height, experience, references, state salary required, enclose photo, Cofmans Pharmacy, 41 Hart Street, W.C.1.

MANCHESTER AREA.—Wanted, for December 1, young, qualified Manager for small branch. Apply, with age, salary expected, and full particulars, to 12/30, Office of this Paper.

ISLANDS.—Qualified Manager for industrial business; must be energetic, good Salesman and Window-dresser; excellent prospects for a smart man. Give details of age, previous experience, and when free to 9/201, Office of this Paper.

ISLANDS.—Qualified Manager required for recently opened business in market town; must be good Window-dresser, keen Salesman; good prospects with liberal commission for man with initiative. Full details as to salary, age, and previous experience to 9/20, Office of this Paper.

BARTHOLOMEW'S HOSPITAL, Rochester, Kent.—Vacancy for Pupil, small premium; also lady Dispensary Assistant required immediately, live out. 5s. weekly, meals, and opportunity to gain dispensing experience in exchange for doing work only. Applications to be addressed to Dispenser.

WORTH COAST.—Smart, qualified man wanted to take charge of a single-handed branch shop; married man preferred; good accommodation over shop. State age, experience, salary required, and give references in first letter to C. T. Cooper, The New Pharmacy, Bognor Regis.

WORTH COAST.—Manager, with up-to-date merchandising ideas, for Store business; must possess knowledge of Optics, Surgical, and able to control staff; good terms, bonus and commission offered to the man with pleasing personality. State age, height, experience, wage, etc., to 15/80, Office of this Paper.

WORTH WALES.—Qualified Manager (married), good Window-dresser and smart Counterhand, required for Family business, a house attached, in residential district of seaside town; excellent prospects for hard worker. Give details of age, previous experience, and when at liberty to 9/200, Office of this Paper.

YOU CAN WRITE

Therefore you can **PREPARE SHOWCARDS** for us and earn up to 5/- per hour in your spare time. No experience needed. Thorough tuition. Work guaranteed. No canvassing. Write NOW to—

GRANT & GRAY, LTD., X 276, St. Albans

A FULLY qualified Chemist, with knowledge of Homeopathy, required for Provincial Hospital on South Coast; applicants must be capable organisers, and able to prepare usual B.P.B.P.C. and such other preparations as required by the Medical Staff. Apply in first instance, with full particulars as to experience, salary required, etc., enclosing recent photo, to be returned, to 7/22, Office of this Paper.

ASSISTANT (qualified) wanted by West-End house. Apply, stating age, experience, and salary required, 178/546, Office of this Paper.

ASSISTANT, qualified, required; quick Dispenser. Full particulars, John R. Randall, 7 Iona Parade, Cippenham, Slough.

IMPROVER (lady) required immediately. State age, experience, and salary required. Bayley, Chemist, 8 Chequers Parade, Dagenham.

JUNIOR (male); good N.H.I. Counter; working-class neighbourhood; must be brisk, willing and careful. Letters not answered in three days respectfully declined. Venables, Chemist, 54 Fulham Palace Road, Hammersmith.

JUNIOR or Improver required at once, age 20-25, for good-class business; one with some experience of D. & P. and Window-dressing preferred; accurate Dispenser. Full particulars of age, experience, salary required to Iliffe & Sons, Chemists, Nunceator.

JUNIOR (male) wanted, with good Counter and Dispensing experience. Apply, stating age, height, experience, and salary required, to Wood's Pharmacy, 37 High Street, Slough.

MANAGER for branch in small country town; living accommodation. Full particulars in first letter, with photo, stating age, height, salary required, references. Willis, Seaton, Devon.

PHARMACY.—Assistant (lady), unqualified, age 21-25, required for South-Eastern district; must have general Pharmaceutical and shop experience. Apply, in writing, stating age, experience, and salary required, to Staff Manager, Royal Arsenal Co-operative Society, Ltd., 148 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." Note.—Canvassing of members of the General Committee and officials will disqualify.

QUALIFIED LADY to open branch shop. Also **UNQUALIFIED** good **COUNTERMAN**. Apply, stating salary required, to Hartley Shaw, Ltd., 7 Northgate, Wakefield.

QUALIFIED Junior Assistant in high-class Pharmacy; quick and accurate Dispenser; capable and courteous Salesman. State age, salary, and previous experience. A progressive position where efforts will be appreciated and recognised. D. R. Hughes, Ph.C., Chemist, Beaconsfield.

QUALIFIED gentleman; young; confident; practical Pharmacist. Apply, by letter, giving details of experience, Chas. F. Thackray, Dispensing Department, 52 St. George Street, Leeds.

QUALIFIED lady, young. Please send particulars of age, height, experience, salary. Cromack, 415 Oxford Road, Manchester.

TAYLORS CASH CHEMISTS have vacancies for Unqualified Juniors in London. Applicants should give full particulars of age, height, experience and wage expected to 55 Pall Mall, London, S.W.1. Replies unanswered in four days respectfully declined.

TWO qualified young ladies (M.P.S.) wanted shortly for Light Retail and Dispensing businesses in London. W.; willing, energetic, and able to take charge occasionally; good personality. Write, stating age, experience, salary required, with photo (returnable), in first instance, to 9/9, Office of this Paper.

UNQUALIFIED Assistant (male) required immediately; age not under 24; must be quick and reliable Dispenser, good Counterhand, with knowledge of Photography; excellent references required; good salary offered. Apply, Marshall, 91 West Green Road, Tottenham, N.15.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

UNQUALIFIED Assistant; 30-35; good personality and courteous Salesman, competent Prescriber and Dispenser essential, and must have up-to-date Display ideas. Apply (with photo, to be returned), stating salary required, references and fullest particulars, Beveridge, 10 Stuart Road, Gillingham, Kent.

WANTED for N.W. London, an expert Salesman and Window-dresser for Drug Stores, with an excellent knowledge of Elastic Hosiery, etc. Write, stating full particulars as to salary, age, experience, when disengaged, 12/9, Office of this Paper.

WANTED, fully qualified lady Chemist to manage branch shop. Written application, stating age, qualifications and experience, to Rotherham Co-operative Society, Ltd., Main Street, Rotherham.

YOUNG, qualified Chemist wanted, to take charge of Retail branch, commencing by established Wholesalers; London, S.E.13 district; excellent prospects for man with initiative. Full particulars, stating salary required, to 9/28, Office of this Paper.

YOUNG lady, with good Dispensing experience (mostly Private), for West-End business. Give particulars of age, height, experience, and when at liberty to 13/3, Office of this Paper.

WHOLESALE.

ADVERTISING.—Writer wanted by Wholesale Chemists for Trade and Medical Printed Matter; previous experience necessary; age about 25 to 30; qualified or unqualified. State salary required and experience to 178/352, Office of this Paper.

CHEMIST (qualified); light work (30 hours per week); suit elderly man, experienced in Coating and Granulation. State age, experience, and wage wanted. 9/17, Office of this Paper.

JOHN RICHARDSON & CO., LEICESTER, LTD., Evington Valley Road, Leicester, are requiring the services of an experienced Representative. Applicants will please give full particulars, in confidence.

REPRESENTATIVES, already calling on Chemists, required throughout England and Wales, including London, to carry remunerative Photographic side line. Apply, by letter, Photeria, Ltd., 23 Theobald's Road, London, W.C.1.

REQUIRED, immediately, the services of gentlemen to push a high-class production in the following districts: Berks. Oxford, Bucks, Herts, Cambs, Suffolk, Norfolk, Northants, Worcester, Shropshire, Northumberland, Durham, Ireland; a well-established connection among Retail Chemists is essential; will not conflict with existing representation. State present territory and frequency of calls. Box 1273, S. Davis & Co. (Aldwych), Ltd., Aldwych House, Aldwych, London, W.C.2.

SMART and energetic Salesman required by leading Wholesale Drug House for Midlands; travelling experience an advantage; knowledge of Pharmacy essential. Apply, stating full particulars; and remuneration, to 178/345, Office of this Paper.

TRAVELLERS wanted, calling on Chemists, Hairdressers, etc., for hugely advertised line. Eve, 9 Duke Street, W.C.2.

WHOLESALE Perfumery House requires Laboratory Assistant; a permanent post with good prospects; applicants should have had sound training in a pharmaceutical, manufacturing laboratory; a knowledge of Perfumery is desirable, but not essential. Apply, stating experience, age and salary required, to 178/353, Office of this Paper.

SITUATIONS WANTED.

(RETAIL HOME.)

A.A.A.A.—QUALIFIED, young, 6 years' experience, desires position as Assistant; abstainer; hard, conscientious worker; will accept nominal salary; Manchester district preferred, but not essential. 9/13, Office of this Paper.

A.A.A.A.—NORTH-EASTERN AREA.—URGENT. Assistant, with wide experience, employed in high-class Pharmacy, requires change within 50 miles of NEWCASTLE; whole or part time; age 24; salary of secondary importance. 7/19, Office of this Paper.

A.A.A.A.—ASSISTANT, unqualified, 28, ten years' experience, desires post in good-class pharmacy, temporary or permanent; London only. "U," 28 Gloucester Court, Kew Road, Kew.

A.A.A.—QUALIFIED, 27, tall, highly recommended, completed five months' locum engagement, as Manager or Senior; brisk business. 12/15, Office of this Paper.

A.—QUALIFIED, 26, desires situation as Manager or Assistant; excellent experience, Dispensing, Counter, Photography. Fagance, London Road, Cirencester.

A.—AN Unqualified Lady (Scot, 22), with London experience, desires post in London; capable Dispenser and Counter Assistant. "M.," 19a Cadogan Gardens, S.W.3.

A.—COMPETENT Unqualified Assistant, age 26, desires permanency, London or suburbs; Dispensing, Retail and Window Display. 11/22, Office of this Paper.

A.—REALLY competent man, F.R.O.A., M.P.S., J.C.Q.O., Manager; successful record as business builder; good Salesman and Window-dresser. 12/14, Office of this Paper.

A.—QUALIFIED, energetic, young gentleman requires permanent position as Manager or Senior; excellent references. "Chemist," 40 Duchess Road, Edgbaston, Birmingham.

A.—THOROUGHLY competent, qualified Manager or Locum with wide experience; age 45; height 6 ft.; good appearance and address; abstainer. "M.P.S.," 69 Milton Road, Waterloo, Liverpool.

A.—NY Distance.—Locum; qualified; experienced; highly recommended; registered R.P.U. Phone: Molesey 0439. J. Frost, 16 River Bank, Molesey.

A.—PRENTICE, second year, City experience, seeks situation City or West-End. Write May, 11 Inglis Road, Addison.

A.—S Locum or Assistant; disengaged; moderate salary; good Prescriber, Extractor, Dispenser; expert knowledge surgical appliances; accustomed to managing. "H. G.," Hill Lane, Southampton.

A.—S Assistant; unqualified; age 38; capable in all duties; large experience in Panel Dispensing. "P. M.," 12 B Street, Rugby.

A.—ASSISTANT; unqualified; first-class general all-round experience; disengaged; London only. Jones, 35 Brondesbury Road, Kilburn, N.W.

A.—ASSISTANT; unqualified; 22; tall; Part I; City and Sea experience, all branches; good references. K. C. Gibbs, 34 Scafield Road, Blackpool.

A.—ASSISTANT (unqualified) desires change; West-End or Trading; good Retail experience; thorough knowledge Drugs, Perfumes, etc.; young, energetic; undeniable references. W. "Chemicus," c/o 137a High Street, King's Heath, Birmingham.

A.—ASSISTANT; unqualified; 20 years; tall; good all-round experience; Dispensing and Counter; excellent references and testimonials; West-End district preferred. R. Spence, Longley Road, Tooting. Phone: Streatham 5760.

A.—ASSISTANT, male, unqualified, young, good experience; highest testimonials, as Salesman, Dispenser, Window-dresser, etc. Garrett, Worcester Road, Moreton-in-Marsh.

A.—ASSISTANT, in good-class business; varied experience; unqualified. "Ferram," 91 Station Road, Chingford, E.

A.—ASSISTANT or Manager; qualified; good all-round experience; quick and accurate Prescribing, etc.; excellent credentials; disengaged. P.C.B. 6/12, Office of this Paper.

A.—ASSISTANT: unqualified; experienced; Locum or permanent town or country. "Statim," 72 Tremadoc Road, Clapham S.W.4.

A.—ASSISTANT (lady, 22); qualified; good all-round experience; disengaged; London or suburbs. 1 Hopefield Avenue, Brondesbury Park, N.W.6.

A.—ASSISTANT or position of trust; locum or permanent; thoroughly conscientious worker; highest references; unqualified. "E.," 131 Mount View Road, N.4.

A.—T liberty; M.P.S.; thoroughly experienced all round; good Dispenser; accustomed heavy Panel; Locum (any district or period) or suitable permanency; middle-aged; active; excellent recent references; rational salary. "M.P.S.," 29 Kenning Road, Lower Clapton, E.5.

CHEMIST desires engagement; excellent experience, Dispensing, Counter and Window-dressing; young; energetic. 9/21, Office of this Paper.

DISENGAGED; Senior or Relief or Part-time; day, week or period; Counter, Dispensing, Stocks, Window-dressing anywhere; greater London area; highest references; reasonable terms. "Chemicus," 56 Rudloe Road, Balham.

EAST LONDON OR EASTERN SUBURB.—Assistant; experienced; unqualified; Counter, Dispensing, Photography; engaged. "K.," 62 Blenheim Road, East Ham, E.6.

EFFICIENT, qualified Manager of good experience (multi-branch and private) desires an appointment in a London business permanent or period; now free; interview by arrangement. Please write "Optimist," 12/8, Office of this Paper.

ENERGETIC, unqualified Assistant, 23, smart appearance, tall, disengaged, requires part-time post or with some time allowed for study preferred; 2 years' London experience; accustomed to quick Counter trade, Dispensing, Photography; K. Salesman; competent Window-dresser; undeniable references. W. G. A. Harries, 44 Altenburg Gardens, Clapham Common S.W.11.

EXPERIENCED all-round Assistant; unregistered; tall; married; competent and trustworthy; disengaged. Hall, 23 Doughty Street, Holborn, W.C.1.

GERMAN Pharmacist (Ph.D.) wishes to spend a few hours weekly in a London Pharmacy to gain a practical knowledge of English Dispensing and Prescription work. Write "Dr. F. W.," 178/347, Office of this Paper.

PROVER (lady), 20, just completed four years' apprenticeship, desires post to assist with Dispensing and Counter, r, Charters Road, Sunningdale.

NIOR; 22; unqualified; Dispensing, Counter. Window-dressing; 6 years' experience; free. Devereux, Barn Lane, St. Edmunds.

NIOR (male) desires post immediately; tall; age 20; energetic; small wage. Daly, "Bennavista," Stoke Road, Slough.

NIOR, 23, disengaged, seeks post; good references. O'Hara, 44 Temple Road, Kew Gardens.

NIOR Assistant requires position; good experience and references; Birmingham or near. "Auranti," 95 Oval Road, Selley Hill, Birmingham.

DY Dispenser (Hall Certificate), Medical Book-keeping, young, also Secretarial knowledge, desires post. 274/6, e of this Paper.

DY (M.P.S.I.), age 29, seeks position as Assistant; 8 years qualified; splendid experience in Dispensing, Prescribing, il, Toilets and Photographic; smart appearance; good ner; photo on request; Liverpool or London preferred. 6/2, e of this Paper.

DY, qualified, Scot, 28, tall, desires post; 12 years' experience; 6 years England; disengaged now. 7/21, Office of Paper.

DY; unqualified; 10 years' experience; reliable Dispenser; keen Saleswoman; energetic; able to take charge. Holmes, Torian Road, Putney, S.W.

DY Assistant; unqualified; good all-round experience; reliable Dispenser; London or Birmingham district; free ember 24. 12/180, Office of this Paper.

DY Major Pharmacist, with wide experience, good businesses, prepared to take Managership, or would consider ncrship; references given and required; seaside preferred. 57, Office of this Paper.

DY, unqualified, desires position, Birmingham district; excellent experience, Dispensing and Counter; thoroughly ble; disengaged end of month. 12/18, Office of this Paper.

CUM, Relief, Manager; "not registered"; over 20 years sound experience, Dispensing, heavy Panel, Hospitals; City, End Stores and good Private; Counter, Stock, Salesman, eribing. "G," 130 Scott-Ellis Gardens, N.W.8.

CUM; qualified; long experience in all branches; active; excellent references; terms moderate. "S. C. J.," 54 Priory l, West Hampstead, N.W.6. Phone: Malda Vale 8212.

CUM; M.P.S.; elderly; good references; moderate terms; period or permanent; disengaged. Wellburn, c/o Mrs. k, 10 Leyland Road, Lee, S.E.12.

CUM or permanency; not registered; middle-age; experienced Dispenser; moderate salary; or manage Drug Stores. 50 Gladstone Street, Battersea, S.W.

CUM; qualified; single; 52; as Manager or Assistant; disengaged. "Chemist," 50 Grove Lane, Camberwell, 5.

NDON.—Qualified, experienced Manager or Assistant; perfect references; 5 years' experience as manager; age 30; any time. 11/11, Office of this Paper.

NAGER; 29; qualified; keen; energetic; competent and methodical; experienced Buyer; well versed in all rments of a brisk modern pharmacy specialising in ter sales and display; references sound; London or withit miles. "Ephredine," 58 Oakfield Road, London, N.4.

ANCHESTER OR DISTRICT.—M.P.S., age 33, male, requires post, Manager or Assistant; capable; energetic; o managing; city and otherwise; good Dispenser, N.H.I. and ate; excellent references. "Chemist," 26 Kirkdale Vale, rpool.

P.S., 26, good experience in quick, up-to-date Counter P.S., and Dispensing business, Photography, etc., lent references, desires post as Manager. Mortimer, c/o ways, Chemists, Church Street, Blackpool.

P.S. (lady) desires permanency; capable taking charge; excellent references; good Dispenser, Counter, ography; Mjdlands. 35 Melton Road, West Bridgford.

P.S., 25, tall, 6 years' excellent Counter, Dispensing P.S., and Photographic experience, desires position; s French; excellent references. F. Norman Smith, "Pens," Grosvenor Road, Wrexham.

P.S., 28, requires permanency; excellent experience in s, every branch; just disposed of own business. s: "Chemist," Beechwood, Hungerford Road, St. Anne's-a.

P.S. desires situation for one month or less; efficient in any capacity. 1 Hopefield Avenue, Brondes-Park, N.W.6.

P.S., aged 24, requires progressive post as Assistant; P.S., London preferred; previously locum; can take ge; disengaged shortly. 12/16, Office of this Paper.

RT-TIME evening work wanted, in or near West End; qualified man; age 30; Dispensing or Counter work; fee ed at interview; any time convenient. 9/6, Office of this r.

QUALIFIED, 26, previously Manager in London, desires similar progressive situation; experienced; well recommended; interview any time. Please state salary. 3/16, Office of this Paper.

QUALIFIED lady desires post in good-class Pharmacy; good experience; excellent references. Apply "Pharmacist," 39 Bernard Avenue, Ealing, W.15.

QUALIFIED, young, tall, excellent all-round experience, desires situation; Assistant or Manager. "Statin," 124 Bignor Street, Hightown, Manchester.

QUALIFIED; middle-age; active; experienced; part-time, occasional or emergency relief; N. or N.W. London; moderate terms; would appreciate interview. "B.," 114 High Road, East Finchley, N.2.

QUALIFIED, experienced, age 30, perfect references, 5 years as manager, urgently desires situation as Manager or Assistant; London. 11/110, Office of this Paper.

QUALIFIED, 26, as Manager or Assistant; excellent references; good experience Dispensing, Counter, Photo. Davies, Court Lane, Rhos, Wrexham.

QUALIFIED, young tall, 6 years' Lancashire and London experience, requires permanency; well recommended; moderate salary; Lancashire preferred, but not essential. Butler, 389 Bolton Road, Bury.

QUALIFIED, young, requires position as Assistant, anywhere in London; keen and energetic; seeking further experience. "M.P.S.," c/o 8 Barnby Street, N.W.1.

QUALIFIED Lady, 23, desires position in London; excellent all-round experience; disengaged; interview; excellent references. 12/5, Office of this Paper.

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QUALIFIED; 10 years last situation; low salary; permanency or Locum. "W.," c/o Fletcher, 4 Scarcroft View, York.

QUALIFIED; 26; 9 years' good all-round experience; disengaged. "J. W.," 28 Willoughby Road, Acton Vale, W.3.

QUALIFIED (lady), 24, experienced Dispenser, Counter and Window-dressing, desires post; Chemist, Doctor or Institution. 12/22, Office of this Paper.

QUALIFIED requires post as Manager; whole or part time; London, S.E. or S.W.; all-round experience; registered R.P.U.; moderate salary and good references. "M.A.P.," 12/20, Office of this Paper.

QUALIFIED.—Locum or temporary; near London only; 7 years' managerial experience. "E.," 8 Hill Close, Cricklewood, N.W.2.

RELIEF; Assistant; 24; available immediately; good Salesman, quick Dispenser. "E.," 8 Waller Road, New Cross, S.E.14.

SON OF SOMERSET seeks berth; unqualified; age 30; 6 ft.; single; good all-round knowledge, Dispensing, Photo, Window-dressing; excellent Counter manner. Rankin, Midsomer Norton, Somerset.

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UNQUALIFIED Assistant; good appearance and address; Dispensing, Counter, Photographic; highest references; disengaged. R. Lloyd-Jones, B.A., "Machraeth View," Llanfachraeth, Holyhead.

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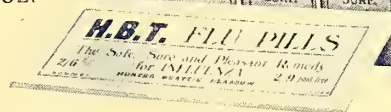
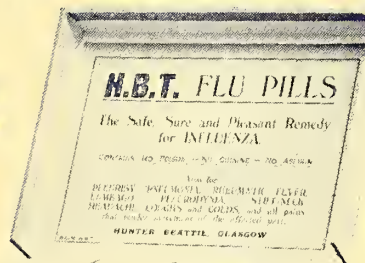
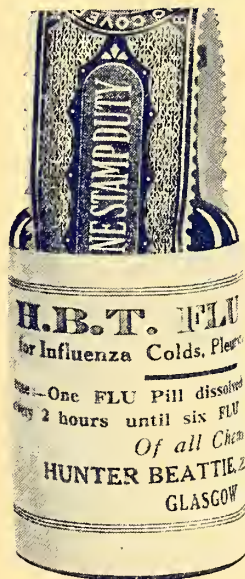
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